

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (126)..(126)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1860)..(1860)

<223> n equals a,t,g, or c

<400> 201

| | | | | | | |
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| atctttccctt | ttccttaaca | atacccttgg | ccattttttt | ccagttcact | atgtttgtat | 60 |
| actaactttt | cttcagcctt | ttaatgcgaa | gcaactagta | gagcatgctt | tcaggatctg | 120 |
| acagcncctg | tagtagagcg | aagtatttat | taatacagaa | ttaaccttmg | cccctttaaa | 180 |
| gtcaagtctg | tctaactctaa | ctagcgccct | gctttgcctt | ctcacaatgc | tcactagcca | 240 |
| tcattgctcac | ccttctcttc | cagatccact | tcctcatgat | actgtcttct | aactgggctt | 300 |
| acttaaagga | tgcgagcaaa | atgcaggctt | accaggatat | caaagcaaa | gaagaacagg | 360 |
| aactgcaaga | tatccagtct | cggcctaaa | aacaactcaa | ttcttacaca | taaatgtttg | 420 |
| ccagagtgtt | tcggccgacg | tatttacagc | tctgacaaat | catcagacag | ctgctctgca | 480 |
| gtacagatgt | gtatccacc | aaactaatgt | agatgtacaa | acacttcact | gtctgtctca | 540 |
| agctgctggg | atgtatctct | aggaaaacct | tccagtgggt | aaatcttttt | ctttagaaca | 600 |
| aatattggag | gtttcatgtt | agccatttta | aaaggcaaca | ctttgacaaa | atgatcgctt | 660 |
| atactttggg | aatttggtgg | atgttcacat | ttattgctag | ggcaattcta | ccaagacact | 720 |
| caatggaata | tgtcacactc | cttaataggg | acctgtgact | ccttaataag | gacctgtgac | 780 |
| atgccagca | tcaagggata | agaccgtaaa | ttcacatata | tgccatctgt | cctcaagtgt | 840 |
| tatctacata | ggaaataaaa | tggaattgat | gtaaagttcc | atctctgaca | gctgacattt | 900 |
| attaaacttt | ggatcaaaga | taatgtgatt | cttatgattg | atctctcaaa | ctagcttttc | 960 |
| cctcccaagt | ccaggaccca | ttaatttcct | gagccaatca | gaaatatatt | tttcaataat | 1020 |
| gctaaaatta | gctacaattc | tgctgaccct | actattaaag | aatctggatg | ctggactcac | 1080 |
| tgacaagctt | tccagaagca | atcttataac | agatttcatt | ttaacaaaat | actgatccaa | 1140 |
| ttttcattat | tcttgagaaa | tgtcagcttt | gccttaatga | gtatttgctt | taaattttcta | 1200 |
| agaattttata | tcataactag | agacccaaat | atctttcaca | gaattttgtt | ccataaatgt | 1260 |
| ttttcttaat | tattaagaag | tgttacctta | ttaaaatgac | caccattcta | aaccattttt | 1320 |
| cagtggctctg | gatacgaagt | ttacagtttc | ataccaacta | tctaaaacct | aattgcaaat | 1380 |
| tgaccacaga | cctctaacct | cctactttta | tagacttgaa | tacttaagta | atttaaat | 1440 |
| gggttggtat | ttcatttttt | tcttatctaa | atcttagttt | cctggaataa | taaagtttga | 1500 |
| tgttcagcaa | gagaactgct | tgagtttaag | ccattttcaa | aagaaacttg | ccttttacat | 1560 |
| tattgtgttc | cagaacatta | agtgaactga | ggtagctggg | attagtgtatg | gtaaactttg | 1620 |
| tgttgctctt | tatgaaatga | tccatataac | tggtgggtgc | atcagtgtct | ttcaaagggg | 1680 |
| ctgcttacta | taggggttaac | tatgtatatt | cattgttaag | agttaacttg | tggtttggct | 1740 |
| gttycctgga | ttttataaca | tacatgtgca | gaaatgtatt | caaatgaaag | gaagcatacc | 1800 |
| tttatcaaga | tgctattaaa | attgaacatc | aagtataaaa | aaaaaaaaaa | aaaaaaattn | 1860 |
| ctgcggccga | caagggaatt | c | | | | 1881 |

<210> 202

<211> 1408

<212> DNA

<213> Homo sapiens

<400> 202

| | | | | | | |
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| acgcgtccgg | cggccggggtc | ccgatgagcc | tctgtttgcc | tccgctggcg | ctgctgctgc | 60 |
| ttctcgccg | gcttgtggcc | ccagccacag | ccgccactgc | ctaccggccg | gactggaacc | 120 |
| gtctgagcgg | cctaaccgcg | gcccggttag | agacctgcgg | gggatgacag | ctgaaccgcc | 180 |
| taaaggaggt | gagtttgaag | gaagaggtcc | ctagctctgt | tccccctgag | cctcttgggg | 240 |
| agtgggcaac | atggctccaa | tgactggggc | ggggaggggg | gaaggatccc | taggctgaga | 300 |
| gtctagccta | ggctgggagt | ctagcctgca | cctgacttgc | tttatgacct | cactgggctt | 360 |
| cagtgtctcg | tctgtacctc | gagtagactg | aggatcatgt | ctctgatgct | ctggttcttc | 420 |
| cccaggtgaa | ggctttcgtc | acgcaggaca | ttccattcta | gtatccttct | gttctggggg | 480 |
| aggggaaatg | ggatgggcac | ctgggagaat | ctccacgtaa | cttcagaaag | gggtggcaga | 540 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tggttttcaa | ctgacaagtt | gaattgattg | ctagtggctc | ccagaggatt | ctgagggtgt | 600 |
| ctccatgttg | ggtgggcaag | agagattgac | tagtgatgac | tgccacagaa | tggagaggag | 660 |
| ggccctttac | ttctttgaac | cctaattttc | tcacgtataa | gcggagaccc | tggcccctcc | 720 |
| cgggcacaga | gtaagctctg | agcaaaggag | gcaatgctgt | tcccatcagt | aagggtgcgg | 780 |
| aaaccaccac | ctccctctgc | ccaccacccc | gctccttaac | accacctcca | gtcacaacct | 840 |
| ggtgatgaaa | cacctccctg | gggccgaccc | tgagctcgtg | ctgctggggc | gccgtacga | 900 |
| ggaactagag | gtgaggccgt | gggagggtgg | ctggggggcg | ggccagaggc | gaggcccagc | 960 |
| ctgctgaccc | cgccccctct | ccgcctcagc | gcacccact | cagtgaatg | acccgcgaag | 1020 |
| agatcaatgc | gctagtgcag | gagctcggct | tctaccgcaa | ggcggcgccc | gacgcgcagg | 1080 |
| tgcccccgga | gtacgtgtgg | gcgcccgcga | agcccccaga | ggaaacttcg | gaccacgctg | 1140 |
| acctgtaggt | ccggggggcg | ggcggagctg | ggacctacct | gcctgagtcc | tggagacaga | 1200 |
| atgaagcgct | cagcatcccg | ggaatacttc | tcttgctgag | agccgatgcc | cgccccggg | 1260 |
| ccagcaggga | tgggggttgg | gaggttctcc | caacccact | ttcttccttc | cccagctcca | 1320 |
| ctaaattccc | tcctgcctta | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1380 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | | | | 1408 |

<210> 203

<211> 2407

<212> DNA

<213> Homo sapiens

<400> 203

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|------|
| ggcagagtc | cagaggtctt | caacaggaag | atgccagctg | gcaccactgc | actgtgatgg | 60 |
| gggccctctc | ctctgctgac | tctgccgttt | ctccaggcct | ccgctcagtg | atgagacca | 120 |
| gagatcggag | acaagcatgg | tgctgctgct | tctgctgctt | ctccagaaaa | tccctgggac | 180 |
| acctttgttc | cagcctgggt | tcttgggctg | ggctcaggaa | agctgccaaa | ttcagtccta | 240 |
| tgttgggtcc | aagctgcccc | tgtgctgttt | ctgtcaagcc | aggtgtggac | attccaagtt | 300 |
| catatgcgtg | aacaaaagaa | aagaggaacc | cagtggatgt | aacagaaccg | actccagttg | 360 |
| aatgtttaga | tttttgctaa | actgttttct | ttttcccttt | tttgctgtgg | tttgcatcca | 420 |
| cggcagtagt | tagccaggt | gtggggaacg | agagtgcact | gcacgatagc | gttctgtgga | 480 |
| gctgggaagg | accaccact | gccactgagg | attgttttgg | aagaaaggaa | tatttttate | 540 |
| ttggggacca | gctaagtctc | tgacgtatgt | tgaatttcca | aatggttgtt | ttatcattgg | 600 |
| tttggtttac | caaaaaaaag | gcagggaaaa | aaaaaaaaaa | caaccgtatg | agcgcattgg | 660 |
| cttgtctgcc | gcagggcacag | aagggtagaa | agccacagca | gggggcagtc | cagcagactc | 720 |
| tgactcaact | ttctaggcac | ctagcagaga | aagataagat | caaaaggtgt | ttggtttttc | 780 |
| ttttaatttt | tattgtagtt | tttttgggtg | ggtgggggaa | gtaaactaga | ctgaagcgat | 840 |
| ggattttttt | ttttcttttt | tttcttttagt | gtttttccct | ttgttcttga | acacttttgc | 900 |
| cctgcagcct | cagttttgaa | ttcttttagc | aacttggatt | agagggggcc | atatgtcaga | 960 |
| agctcccagc | acctcctact | tgggagaaaa | gtgagccatc | tgctggtcag | gaagtctctc | 1020 |
| agagaggcag | cttttcccac | aatggtggca | ggaaactttg | gggaaagcag | gaatgggtgtc | 1080 |
| cactgctgcg | gaggaactgc | cttcagagaa | ggtggggctg | gaaaagggtt | agaagcctcc | 1140 |
| tagctgggat | tgtctttgtt | tcacctttct | ttaaattaga | attacagaag | ccctgcccc | 1200 |
| gtgaacagat | aacaattggg | cttatgctcc | tcctttccc | ccattttttc | ttttgctgtt | 1260 |
| ttgttttttg | ttttttgttt | gtttgtttgt | ttttttgaga | cagagtcatg | ctctgtcacc | 1320 |
| cgggctggag | tgacgtgggt | cgatctcagc | tcactgtaac | ctccgcctcc | cgggttcaag | 1380 |
| caattatttg | cctcagcctc | ccgagtagct | gggattatag | gcacccgcc | ccatgtctgg | 1440 |
| cttttagtag | agacggggtt | tcaccatctt | ggccaggctg | gtcttggaac | tcctgacctc | 1500 |
| gtgagccacc | acgccagcc | tcttttgctg | tttcattgct | gacagtgttc | aacaatatgc | 1560 |
| cccatcttta | tatatcctaa | gaaacactaa | tcctaggtta | ttgctagcca | aaatattttt | 1620 |
| gtcctgagta | gtgtcactgg | gccaaaagat | agatcaggac | gacagccttt | agttttctctg | 1680 |
| aaatcaccag | gtcaggcaca | aggagaaaag | gttcctggat | actgactaac | ttgggtgggt | 1740 |
| ctagccagga | gaaagacagt | aacatgtgtt | ctgtactttc | tgggaagatc | cctgaagcca | 1800 |
| tcacagaggc | tccccaactt | ctgagtcgcc | catctgttgc | tgtgggagtg | tgaacggatc | 1860 |
| gctgaaggag | aggagctttt | gctctctcta | ggtgggcaag | tttctctggc | tctctgtgtt | 1920 |
| gcctccctct | ggcttcttcc | tcccgtgcc | tctccccgtg | tgccccaggg | ggatcaggga | 1980 |
| tcctcaccct | cctgaggccc | agtggggaag | aatgaacatg | gcttcatcca | ggttaactga | 2040 |
| tgctgccatt | tgccagcct | cttccatccc | agccctgtca | gtgagcccag | gtctggtgca | 2100 |
| actgctgcag | gatgcctgta | gtagggaact | ctggaagtgt | attgggctga | ggtgggattt | 2160 |
| tccctcccca | cagtgcactg | agcaatggag | ggtggtgagg | gagccatgct | gctgaattct | 2220 |
| ggttggcatt | tccccattat | gtaaaatggg | gtgttgggta | gggcagactc | tgcttgggtt | 2280 |
| tggttgaag | ataaacctgg | aggagaagca | cagttgtccc | attgaattat | ttgagcaaaa | 2340 |

actactgtaa ataacttttt tgtcttttgt caaataaaaat ttttttttgt ttttttaaaa 2400
 aaaaaaa 2407

<210> 204
 <211> 795
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (791)..(791)
 <223> n equals a,t,g, or c

<400> 204
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 gctgctggca ggcattctga tcctgctcaa tggggtgata ccccaggacc agtccattgt 180
 ccgaacctct cttgctgtgc tggggaaggg ttgtctggct gcctccttca actgcatctt 240
 cctgtatact gggaactgta tcccacaatg atccggcaga caggcatggg aatgggcagc 300
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 ccctccatgc ctctcttcat ctacgggtgct gttcctgtgg ccgccagcgc tgtcactgtc 420
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 aaagggaaac agacgcgaca gcaacaagag caccagaagt atatggtccc actgcaggcc 540
 tcagcacaag agaagaatgg actctgagga ctgagaaggg gccttacaga accctaaagg 600
 gagggaaagg cctacagggtc tccggccacc cacacaagga ggaggaagag gaaatggtga 660
 cccaagtgtg ggggttgtgg ttcaggaag catcttccca ggggtccacc tccctttata 720
 aacccacca gaaccacatc attaaaagg ttgactgcm aaaaaaaaaa aaaaaaaaaa 780
 aactcgaggg ngggc 795

<210> 205
 <211> 1169
 <212> DNA
 <213> Homo sapiens

<400> 205
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 cctgggacac agagaaaagt aaatatatta tggcacactg gagtaaaactg aagagggtta 180
 ggggtactag agttgagtga aaaggaattt cttacatttt cctcatatta tacaattatg 240
 ggaagaaaat taaaatgcag aatttttaggg gagttattaa atattgaatt tgtgtacaac 300
 tttcaaatga aatcttttca gttttttatg acacacttga gctcacttct agaaacatgt 360
 cttagtctgt tttgtgctgc tctaacagaa tacttgagac tgggtaattt ttaacaagca 420
 gagatttctt tcttacagtt ctggaggcta ggaagtccaa ggttgagggg catgcatcta 480
 gcaagggcct ctttctgctg tcatccata gtgaagggca gaaaggcaag agaacacgct 540
 tttgcatgag agagagaaaag agagagaaga gaagggaagg gaagagaaag aagagaagag 600
 aagagaagag aagagaagaa aagggaagca aactcatcta tttatcagga acccttctta 660
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 tacctcatca sttcttaaag gtctcacttc tcagtactgc tgcattgggg attaggtttc 780
 caacacatga acttcggagg acacattcaa gccgtagcat tctyccttga ctcccmaaat 840
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 gactccaggt gcaattcatc ctgaggcaaa tttctctcca gatgttagcc tatgaaaata 1020
 gcaaatfact ttcttccaaa atacaatggg gggacaggca taggatagac attcccatc 1080
 caaaagggag aaataagcaa gaagaaagg gtaactgggt ccaagtaagt ccaaaatcca 1140
 acagaaaaaa aaaaaaaaaa ggcggccgc 1169

<210> 206
 <211> 1088
 <212> DNA
 <213> Homo sapiens

<400> 206

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| ggcacgagct | aagccaaccg | caactgaagga | gtggggagaa | gagcatacgc | caggagcctc | 60 |
| ctgcctcaaa | gtgctcccct | aagtcttctt | cctcctgtgc | tgacctcagg | gtgggtctgac | 120 |
| ccttccctcg | gtgtggggga | tgtggccctc | tcaggtgccc | ctacttgctt | tctgcttcct | 180 |
| tctggtgaag | tccacctcca | acattaacct | gcccacccca | ccccgcat | ccctggagaa | 240 |
| ttccagcttt | gtcgtatctc | agagagggaa | tctaattgtt | tttggggggc | aaaagaaagc | 300 |
| aacgttttagg | tatcacttct | acttggaccg | catgcctttt | tatagccaaa | tttctgtgta | 360 |
| tttcgtaaat | ggatttcgcg | ttaatggata | tttatgtaat | aactagactt | ctcagattat | 420 |
| tgtgagaagg | gtcaggttgg | aaggggtgta | ggaagagggg | tgaggggtag | ttttttctg | 480 |
| ttctagtttt | ttttttttt | ttgtcatctc | tgaggtggac | cttgtcacct | gtggttattg | 540 |
| ggccaaggc | ggactcagct | cccggggaga | agggcctctc | tgccatttcg | gtcccaagg | 600 |
| gagctgacac | agggcttcct | tttgggactg | tggaaagcatc | agatgccagc | actgactcag | 660 |
| gaacagcaag | tcagggcaga | gaggaggagg | gaggctgtca | ggatggaaat | acctggactt | 720 |
| ttctttgctt | ccctcgcaaa | ctggggtctt | ctctaccgaa | cttcccagga | tttcatctca | 780 |
| ccatatctgt | gtgccgcccc | cagcaccccc | caccacctc | tggggggccc | gtgagcgtgt | 840 |
| gtcttcattg | cctctctccc | cttggcgtct | gatgaccaca | gcaaagcact | gggaatttct | 900 |
| actcttcatg | cctcatctcg | cagcctcggg | tctgcattct | ctctttcttt | tcctctttcc | 960 |
| ctctttccct | gggattgact | ctgagtggaa | taccttggca | catccactag | gatctactgt | 1020 |
| ctgcactgtt | ttctttgcat | gactttatac | gcagtaagta | tgttgaaaac | aaaaaaaaaa | 1080 |
| aaaaaaaaa | | | | | | 1088 |

<210> 207

<211> 2067

<212> DNA

<213> Homo sapiens

<400> 207

| | | | | | | |
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| tgtttgtcgg | caagaagccc | tctgttaata | atggtctaaa | caataagac | attgtttttc | 120 |
| tccaataaag | aatccagag | gcaggcagta | gctggctttg | attcagcctc | tgactgtcac | 180 |
| tgtcagggcc | ccaggcccca | tgagcctttc | gtctttcctg | catgttggct | tatcttttca | 240 |
| tgcttgtgac | ttcctgggtg | caacacggct | gctgcaacac | cagacatctt | gcctgtcttc | 300 |
| aaggcaggaa | ggagggggaa | actatcgctt | accagctatt | tttcttacct | tagctctctc | 360 |
| atgtcttggg | tcaaaagcat | ctctttgaac | ctctccctca | ggcataccct | gaaatgctgt | 420 |
| ggactttaac | cttttttctg | ttgcaaagg | cgctcacatc | tccctgggtg | tttggctctc | 480 |
| tcttcttgg | ctctagtaac | acagcagctt | gttgccttct | aggacaactt | ataatgggac | 540 |
| ccaaagggga | aagaggattt | cccgggcctc | caggaagatg | tctttgtgga | cccactatga | 600 |
| atgtgaataa | cccttctctac | ggggaatctg | tgatggggcc | cagttccccc | cgagttcctg | 660 |
| tggtgaaggct | ttctggggaga | agtctgggg | ggttatccgt | gaggacctct | cacctgatcc | 720 |
| ttatggggct | ttgtaaaatc | ctttcagtaa | aactaacttt | ttttcacgac | tctgagtaca | 780 |
| ccctcattat | aggaaattgg | aaaatatgag | aaaatcaaga | ggaaaaccaa | attgtccatt | 840 |
| tgattgtgag | tccattttgg | ggtattttct | ttgtcttatt | aaaatctaac | ttttatatgg | 900 |
| ttgagattat | attgtataaa | aatgtacttt | tggccgggca | tggtggctta | tgctgtgaat | 960 |
| cccagcactt | tgggaggcca | aggtgggtgg | attataaggt | caggagttcg | agatcagcct | 1020 |
| ggccgataca | gtgaaacccc | atctctacta | aaaaatatat | ttaaaaaatt | agccgggcgc | 1080 |
| ggtggtgcac | gcctgttgct | tcagctactt | gggaggctga | ggtggggagaa | tcgcttgaa | 1140 |
| ccaggaggcg | gagattgcag | tgagctgaga | tagcaccact | gcactccagc | ctgggcaaca | 1200 |
| gagcgagact | ccgtctcaaa | aaaagttata | ctttgktatc | ttagttgaaa | tcctgccatg | 1260 |
| tttccacact | ctataaataa | catttttaac | tttttattag | ggaaaatttc | aaatacatat | 1320 |
| aaaagcagaa | caaatagtgt | aatgaacccc | tgtgtaccct | tcaccaact | ttaataatga | 1380 |
| tcaactcatg | gcgagcctgt | gtccttgttt | tctctttatg | cctactcact | cctgcccatt | 1440 |
| ctctgttgta | ttattttgaa | gtaaaccttg | gacatctggt | catcataatc | atccatctag | 1500 |
| tgtggctgtg | ctacaattta | cttaaccagt | ggtgggtgtt | aaccaacctt | ttgcttattg | 1560 |
| gccaccccca | agctttttac | taatgtaaat | aatgctgtaa | agaatatctt | tgagtaggat | 1620 |
| aattttaaga | atcacttcca | gatgtcaaat | tacttgacta | tatgacattg | ccttttaact | 1680 |
| taagtcttgg | gaacgtttta | aatatttaaa | aatgttaaat | ccgaggccgg | gcgcggtggc | 1740 |
| tcatgcctgt | aatcccagaa | ctttggggagg | ccgaggtggg | tggatcacct | tgaggtcagg | 1800 |
| agctcgcaac | cagcctggcc | aacatggcga | aaccctatct | ctactaaaaa | tacaaaaagt | 1860 |
| agccaggcat | tgtggtgcac | acctgtaatc | ccacctactc | gagaggctga | ggcaggagaa | 1920 |
| ttgcttgaa | ccgggaggca | gaggttgcaa | tgagccgaga | tcacgctact | tcactccagc | 1980 |
| ctgggcaacc | gcgtgagact | ccatctcaaa | aacaaaagaa | aaaaaaaaaw | aaaaaaaccg | 2040 |

gcacgagggg gggcccgtac ccaatcg

2067

<210> 208

<211> 2213

<212> DNA

<213> Homo sapiens

<400> 208

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caaaaagaaa tattaatatg tacttttcca tttatttatt catgtgtaca gaaacaactg      2160
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<210> 209

<211> 796

<212> DNA

<213> Homo sapiens

<400> 209

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gaaaaaaaaa aaaaagccaa aaaaaaaaga agaagaagta ccactgctag gatttgaacc      60
cagatctagc tgactcaaga accatgccct atctctgtgt ccatgttgtc accacttaat      120
cacttgattt ttcccttcag gtttctctgt atcgtgtgtt ctctcccaag agtggctctc      180
caactcacc ctaattaagga agctttccca agccaggagc ttacctttcc gtgcacacat      240
tgaatgatga tcatttgtca ttctgtcttg ccttacaaaa gaggaccagc tccttgagga      300
taggaacctt gtccttatct ccctgttccc ctgtatgggg gccagctcct ggagggtgca      360
tagtaataaa tgagtataaa acttgttgga aagaccatgc aggaaccaag caactctttt      420
cctctgcctc aatgcagtta gttcaagaac ttactaagaa aagagttgtt ggccaggcac      480
agtggcacag gcctgtaatc ccagcactgt gggagaccaa ggcaggcaaa ttgcttgagg      540

```

```

tcaggagttt gagaccagcc tggacaatat ggcgaaaccc catctctatg aaaaattgga 600
aaagtagcca ggcattggtg catgcacctg tgggtcccagc tactttggag gctgaggtgg 660
gcgaatcact ttagyccggg gaggtcgagg atgcagttag ctgagattgc gccactgaac 720
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aaaaaaaaaa ctcgta 796

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<210> 210

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (434)..(434)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (528)..(528)

<223> n equals a,t,g, or c

<400> 210

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taccagctcc tggacagaac agactaagat acattccaag aagcagtttc tttggagaca 120
gaggcgtaac tgtgcatatg gacaagggtt atatttctgt tcaaagtggc catccatatg 180
cttctaggct tcctttgtct ctggtatcaa gtgtatgtat gtatgtatgt atgtacttat 240
ttatttattt atttattatt ttctcttttt tctctgcccc atatgatctg caagaaaagt 300
gtcaagttta taatgagctc cccaaagcca ccatctgggt agcctcacat ctttttcac 360
ccctgtgect ctccctgct tttgtcctac tctagccaga ctctgcccga agggggggcc 420
ggtamccaat tcgncctata gtgagtcgta ttacaattca ctggccgtcg tttamaaagt 480
cgtgactggg gaaaacctgg sggtaaccaa cttwaatcgc cttgaagnaa at 532

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<210> 211

<211> 1575

<212> DNA

<213> Homo sapiens

<400> 211

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gtccattctt ccggtggaga tggctgcggc cgtggcgggg atgctgcgag ggggtctcct 60
gccccaggcg ggccggctgc ctaccctcca gactgtccgc tatggctcca aggctgttac 120
ccgccaccgt cgtgtgatgc actttcagcg gcagaagctg atggctgtga ctgaatatat 180
cccccgaaa ccagccatcc acccatcatg cctgccatct cctcccagcc cccacagga 240
ggagataggg ctcacagggc ttctccgccc ggagatagca gcagttttcc aggacaaccg 300
aatgatagcc gtctgccaga atgtggctct gactgcagag gacaagcttc ttatgcgaca 360
ccagctgcgg aaacacaaga tcctgatgaa grtcttcccc aaccaggctc tgaagccctt 420
cctggaggat tccaagtacc aaaatctgct gccccttttt gtggggcaca acatgctgct 480
ggtcagtgaa gagcccaagg tcaaggagat ggtacggatc ttaaggactg tgccattcct 540
gccgtgcta ggtggctgca ttgatgacac catcctcagc aggcagggtc ttatcaacta 600
ctccaagctc cccagcctgc ccctgggtgca gggggagctt gtaggaggcc tcacctgcct 660
cacagcccag acccactccc tgctccagca ccagcccctc cagctgacca ccctgttgga 720
ccagtacatc agagagcaac gcgagaagga ttctgtcatg tcggccaatg ggaagccaga 780
tcttgacact gttccggact cgtagccagc ctgttttagc agccctgcgc ataaatacac 840
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gttcctttac tgctgaccac attgtacca tttcacagag aaggagcaga gaaattaagt 1320
ggcttgctca aggtcatgca gttagtaagt ggcagaacag ggacttgaac caagccctct 1380

```

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| gctctgaaga | ccgcgtcctg | aattttcttca | ctagagcttc | ctcatcaggt | tacccagaag | 1440 |
| tgggtcccat | ccaccatcca | gggtgtgcttg | gatgttagtt | ctccaccctc | gaggtgtacg | 1500 |
| ctgtgaaaag | tttgggagca | ctgctttata | ataaaatgaa | atatattcta | maaaaaaaaa | 1560 |
| aaaaaaaaaa | ykcga | | | | | 1575 |

<210> 212

<211> 1839

<212> DNA

<213> Homo sapiens

<400> 212

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| aattcggcac | gagtgcaggt | cgactctaga | ggatccccgc | taagaagcta | gggctattgg | 60 |
| tcttcccata | cacacatcag | aactgaggca | ccatgcaagg | gggccagaga | cctcatctcc | 120 |
| tcttgctgct | gttggctgtc | tgccctgggg | cccagagccg | caaccaagag | gagcgtctgc | 180 |
| ttgcggacct | gatgcgaaac | tacgaccccc | acctgcggcc | ggctgagcgc | gactcagatg | 240 |
| tgggtcaatgt | cagcctgaag | cttaccttga | ccaacctcat | ctccctgaat | gaacgagagg | 300 |
| aggccctcac | aactaacgtc | tggatagaga | tgcaatgggt | cgactatcgc | ctgcgctggg | 360 |
| acccaaaaga | ctacgaaggc | ctgtggatat | tgaggggtgcc | atctactatg | gtctggcggc | 420 |
| cagatatcgt | cctggagaac | aatgtggacg | gtgtcttcga | gggtggctctc | tactgcaatg | 480 |
| tcctcgtgtc | ccccgacgg | tgatctact | ggctgccgcc | tgccatcttc | cgctcctcct | 540 |
| gtcccatctc | tgtcacctac | ttcccccttcg | attggcagaa | ctgttccttc | atcttccaat | 600 |
| cccagactta | cagcaccagt | gagatcaact | tgcagctgag | ccaggargat | gggcaagcca | 660 |
| ttgagtggat | cttcattgac | ccggaggctt | tcacagagaa | tgggragtgg | sccatccggc | 720 |
| accgaccggy | taaaatgctc | ctggactccg | tggtcctgc | agagraggcg | ggccaccaga | 780 |
| aggtgggtgt | ctacctgctt | atccagcgca | agccccctct | ctacgtcatc | aacatcatcg | 840 |
| ccccctgtgt | gtcatctctc | tcagtgcgca | tcctcatcta | cttccctcct | gctaaggcgg | 900 |
| gcggccagaa | atgcacagt | gccaccaacg | tgctcctggc | ccagactgtc | ttccttttcc | 960 |
| ttgtggctaa | gaaggtgcct | gagacctccc | aggcagtgcc | actcatcagc | aagtacctga | 1020 |
| ccttctcat | gggtgtgacc | atcctcatcg | tcgtgaactc | tgtggtcgtg | ctcaatgtgt | 1080 |
| ccttgccgtc | ccccacaca | cactccatgg | cccggtgggt | ccgcaagggt | ttcctgaggc | 1140 |
| tcctgcccc | gctgttacgg | atgcatgtgc | gccactagc | tcagctgct | gtccaggatg | 1200 |
| cccggttccg | actccagaat | ggctcttctc | cagggtggcc | catcatggct | cgagaggaag | 1260 |
| gggacctctg | tctgcctcga | agcgaaactc | tctttaggca | aaggcagcgc | aatggattag | 1320 |
| tgaggcagct | attggagaag | ctagagaatg | gtccagaagt | gaggcagagc | caggagttct | 1380 |
| gtggcagcct | gaagcaagcc | tccccagcca | tcaggcctg | tgtggatgcc | tgtaacctca | 1440 |
| tggctcgtgc | ccgacgccag | cagagtcaact | ttgacagtgg | gaacgaggag | tggttgctgg | 1500 |
| tgggccgagt | gtggaccga | gtctgcttcc | tagccatgct | ctccctcttc | atctgtggca | 1560 |
| ctgctggcat | cttctcatg | gccactaca | accaagtgcc | tgacctgccg | ttccccggag | 1620 |
| acccccgccc | ctacctgcct | ttgccagact | gagccaacca | atccctcctg | ggccctggag | 1680 |
| tcagctatga | gggccatgct | gtttgtagag | ctgtatcccc | tgttgatgct | gagtgtgttc | 1740 |
| ttggggaaat | acccaaggct | tcctgggaga | agatagagaa | ataaagagac | agaggggaaa | 1800 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aactcgtag | | | 1839 |

<210> 213

<211> 1103

<212> DNA

<213> Homo sapiens

<400> 213

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| gtcttaatga | gcaacagcaa | cagcagtctc | cagttaagaa | agagagaatt | aaatacagca | 60 |
| gagatttctc | gttgaagctc | tcaagtgttt | ccatctgcag | aaaaaaacca | gactttctgc | 120 |
| ctgatcatcc | cattgtactg | caaaaaccag | aaaacaacca | aagttttaag | tagcatttta | 180 |
| agaacagatg | aattttaagt | tggacatctg | caaatgaggt | ggatctagca | acaataactg | 240 |
| taatggactg | tgacaattca | atatttctt | aattttgatg | gttggctatt | tgacttctct | 300 |
| aaaaatgaga | aagagctatt | ttaaaatata | aagaattttc | taatcagttt | cagctttgca | 360 |
| ggaggtttcc | tgcataaatt | gggaagtaac | actggaaagt | aggaatttgg | ttagtgaagt | 420 |
| gggaagactg | tatatattata | atattgcatac | tacttgcaat | tttttgtttt | tcactacttg | 480 |
| taataatgga | atggaaatgt | aagctgtaaa | gactctcaaa | tataaaatat | ttgctacagt | 540 |
| gtatatatgg | tacataattg | cttggtgctt | ttaaagtctc | ttctgtgtgt | ctgcttccca | 600 |
| ctgatttcat | accagctcat | gaatggatca | ttacagtctc | tccagaggct | tagaatgatt | 660 |
| cagaatgttc | aatgcatagt | tctcaataaa | caggaggcag | aatttttaat | gggtatttct | 720 |

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|------|
| tttcagatat | atgattggtc | tctaggtttt | tgataataat | atgggtcttaa | attcataatt | 780 |
| actagcagag | attgataaatt | tggaacaat | ggtagtgaat | gaaactgaag | ttgaaaaacg | 840 |
| gctgctactt | atgtcactaa | tcagaccata | tgaatagcag | aagttgagca | atttcaaagt | 900 |
| aaaactgata | tttttatttc | caaaggaatt | tagacatttg | aaaataattg | acatacatta | 960 |
| agttttaatt | cgataatttc | ttatatatgg | atgaacaatt | tttgggttta | agcttttaatt | 1020 |
| tcctagaaat | tttatacatt | aaatctcctg | caatttgtca | ctctggatgt | tactgtttaa | 1080 |
| aaaaaaaaa | aaaaaactcg | tag | | | | 1103 |

<210> 214

<211> 1175

<212> DNA

<213> Homo sapiens

<400> 214

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|------|
| ggcacgagat | tgaatgttcc | agataatccc | tttcccagtc | ctgcctgaca | tctgggtagg | 60 |
| gggtttgtcc | ctggaattct | gggacactgg | ctggggtttg | aggagagaag | ccagtaccta | 120 |
| cctggctgca | ggatgaagct | ggccagtggc | ttcttggttt | tgtggctcag | ccttgggggt | 180 |
| ggcctggctc | agagcgacac | gagccctgac | acggaggagt | cctattcaga | ctggggcctt | 240 |
| cggcacctcc | ggggaagctt | tgaatccgtc | aatagctact | tcgattcttt | tctggagctg | 300 |
| ctgggagggg | agaatggagt | ctgtcagtag | aggtgccgat | atggaaaggc | accaatgcc | 360 |
| agacctgggt | acaagcccca | agagcccaat | ggctgcggct | cctatttcc | gggtctcaag | 420 |
| gtaccagaaa | gtatggactt | gggcattcca | gcaatgacaa | agtgtctgaa | ccagctggat | 480 |
| gtctgttatg | acacttgccg | tgccaacaaa | tatcgctgtg | atgcaaaatt | ccgatgggtg | 540 |
| ctccactcga | tctgctctga | ccttaagcgg | agtcctgggt | ttgtctccaa | agtggaagcc | 600 |
| tgtgattccc | tggttgacac | tgtgttcaac | accgtgtgga | ccttgggctg | ccgccccctt | 660 |
| atgaatagtc | agcgggcagc | ttgcatctgt | gcagaggagg | agaaggaaga | gttatgagga | 720 |
| agaagtgatt | ccttcctggt | tttgagtgtg | accacagctg | tcagccttca | agatgtcaag | 780 |
| tcttcgagtc | agcgtgactc | attcgttctt | ccaacagttt | ggacaccaca | aagcaggaga | 840 |
| aagggaacat | ttttctacag | ctggaaagtg | agtcctatcc | tttgaggaaa | tttgaaaaaa | 900 |
| gacatggagt | ggtttgaaag | ctactcttca | tttaagactg | ctctccccaa | ccaagacaca | 960 |
| tttgccctgga | aattcagttc | ttagcttaaa | gactaaaatg | caagcaaacc | ctgcaattcc | 1020 |
| tggacctgat | agttatatcc | atgagtgtgaa | ttgtggggag | tccagccatt | tgggaggcaa | 1080 |
| tgactttctg | ctggcccatg | tttcagttgc | cagtaagctt | ctcacattta | ataaagtgtg | 1140 |
| cttttttagaa | catttggaag | aaaaaaaaaa | aaaaa | | | 1175 |

<210> 215

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (106)..(106)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (110)..(110)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (422)..(422)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (427)..(427)

<223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (548)..(548)
 <223> n equals a,t,g, or c

<400> 215
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 tccttgacagc cttccatctg tgctacctcc caggaagccg aagcgncagn agtccctttc 120
 ggatggcact gggagcagga aaatgagggtg attatgggct gctgctccaa gaagtattgg 180
 cagctgttgc tgggggcggc tccctgggggt gtcattccctt kcttgctctt gtggatggga 240
 accagagcac ccacttcaa agactctgta agccagggct taccaragaa agctgaagag 300
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 anagaanctg ttgggtcttt cctacctaat ctggtagaaa tgtgagaaca gaggctaatt 480
 tggggaaaata aatctctcaa tttttttgag ttgctttgtg tgtgtgcgcg cgcgcatgtg 540
 tgtgtgtgag gggcagggc tctaagaaag aa 572

<210> 216
 <211> 1350
 <212> DNA
 <213> Homo sapiens

<400> 216
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 aactaaata tagagagggg ctttatttca atcatagagc aacaacaaaa ataagtctta 120
 tagctaaact gcctgttcta gaaagcatct gctttttcat gttattccta aatcctcttg 180
 tcatactttt gtcatgaac aatgctctcc ctctcgtctt ccattcctcat tcagaatttt 240
 tagaagacca caatcgtgga gatacactac ccagtattgt ttgatacatt tttatttgat 300
 aaacattcag tgcaggaaac tgtgatttgc tatatgttta tgtatataat cttattctgt 360
 agtcatcaga atgttaattg aaggtagatt tgatttttat tttttacatg ttagtatttc 420
 tttcttcaca gtcaaagcat ttatattatt gggggtgggg gcagggaatt aagtgggtgg 480
 gctcgaaaat ccattcatat gtatctgtct acaaatgtct ggggataatt taaatttgaa 540
 acctaaagta tatatagttt ggcaatgctc ttcttcaata ttacaataa taggatgatc 600
 tacaagaaaa taagtttctt tttgcaaat tttatcatac taaagtgtgt cttttaattt 660
 agcatatcta aaataggatt tagttcagtt tagctcacac aggtgtttgc tgacattcat 720
 tggccattta atacagtgtt gagggttctt ccgtaaaagt ataagtgcta acactacgaa 780
 gaaatgcaca cgtcattctt tgctcacttc tataacaaac ttacataaaa tggatttaaa 840
 aattcctact cacagcctaa aacttctgga gttcactacc tttttttcaa attcatagta 900
 agatcacctg tgtattttat attttagtaa agccaattat gaagtacaag tatcatacac 960
 gtacttttga gctactatta tttgaaaaaa atctgccaaa tagcatcttt aggatattat 1020
 tacattttca ctcatctaaa aagtatacaa aaataaaaaag tggaaaaagg tatcttctga 1080
 atgttcaaga gcattcctata gtgccaaata ataaagcacc atttttttct tcataaccag 1140
 gattaaaatt catatatact gcagggcaga catacatatg atagcttggt ctgattaatt 1200
 taacccatt tgtaaacaga tgaaaatttt attttcttat ttcatttata agatggctca 1260
 atgtattggg aggttctttt tttattacag aaagtgtata ttggtatata ataaatgaac 1320
 ttttcaaatg aaaaaaaaaa aaaaaaaaaa 1350

<210> 217
 <211> 947
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (547)..(547)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (555)..(555)
 <223> n equals a,t,g, or c

<400> 217

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|-----|
| tgaagacaag | ggtggcatat | atttactttg | caataagtac | accatattgg | gtccttttga | 60 |
| gattgtcatt | tgggtgtgta | gcatttaaga | tttaacagct | ttctattata | gagatcctac | 120 |
| agctttatat | tagaagatta | ttctgaagtc | ataacatttt | tttaaaaaag | taatttcaga | 180 |
| aaaaaaaaag | aattgttactg | ggataatgag | gaatgatgtc | tagctgcctg | gtggtgggtca | 240 |
| tcactctgcg | tgtttatttt | agttgggtgc | aggccattag | aagtcaagtt | gtctgggtcac | 300 |
| gaatgaaacg | tttacagtct | gcttcaaggc | aatcaggact | atccattccc | aggagtgaag | 360 |
| tgtctgcatt | gcatagactg | caagattgga | gtgataaatc | acacatactt | ttttttattt | 420 |
| ttttgccaag | agttttagg | ttcccattat | aaagccaggc | acttgattta | gaatgtgtaa | 480 |
| ggcaatcctt | tgggaatgct | ttgggatyca | gcataactct | ttgaatgaac | tggagctttg | 540 |
| tgaattncct | tttntcctc | agatcataag | gtagaaaaaa | attcctttta | acaaaatagc | 600 |
| attcttatcc | acccaccttc | tgatccaggg | gagtagactg | ggtagtgacc | tcaggaaaga | 660 |
| gaacaaggga | gtgaggttac | aggaaatgtt | aggagtgtga | gcttgaagac | aaagacgacc | 720 |
| caactggcaa | agacagcagt | tgtcaatcag | agcagatgaa | tcatacacatc | agcaaatatt | 780 |
| cattatatat | ctgctcaata | ataagaaaag | cttctaccaa | aggccaatgc | tccagacctc | 840 |
| tccccgaacc | tccagattca | cttaccacc | tgcctacccc | agcaatgtac | agagcatcgc | 900 |
| ctcgtgccga | attcgatatc | aagcttatcg | ataccgtcga | cctcgag | | 947 |

<210> 218

<211> 1918

<212> DNA

<213> Homo sapiens

<400> 218

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| ctggagagct | gtacagatat | tgatgtctatt | cgccaatcca | ggacatgcag | aaggagcatg | 120 |
| catcagcccc | gggcccgcag | gaaagaggga | gccactcaa | ctaggataat | gcacagaggg | 180 |
| tgttttcaca | aaggtgtgag | cggtggtgctg | gataaaggca | ggactaatgc | agtaacctag | 240 |
| agccagtagc | agtggagtga | aggagcttct | cccatcaccc | agccagaaga | ccaggaggag | 300 |
| aacagctacc | tggaccagaa | ggagaggtct | tgtagagaag | ctcccttgag | aggatccctt | 360 |
| tctgccaaag | gacagccaac | ctaggtgggc | ttgctgggag | catgacagag | gagttaatte | 420 |
| cccgttttca | tgttctctct | ttcctccact | cctctgaggg | ttactagcca | aatccaccga | 480 |
| aggcagccac | caagacatcc | tcacagatca | gcctcccagg | acacacagca | gggcaaagaa | 540 |
| ggtggagatg | gatgggaggg | gagcaaggag | cagatttgga | ggagtgcagc | atggctctag | 600 |
| gagagcgcca | tccctgctgc | ccctagctgt | gtggccttgg | ccaggttacc | taacttctct | 660 |
| aatcctcaga | gagaggttgg | ggctgaatac | tcaggagtct | tcagtggaaa | ggtggatgcc | 720 |
| atgggtgtgc | tgcgatttcc | tggagaaggt | gtagcttaga | ggggaactgg | ggcaggctga | 780 |
| agagtggag | tcagggtacg | aggctgggga | cacagtcagc | agtagcttcc | | 840 |
| tcctctggga | tcctctagca | ttttctcttt | aacttctcac | agaagacttt | acagatttta | 900 |
| ttgccactgc | ttccgtgtgc | ctcccatcag | agtgtgagca | cctttgttcc | tcagtccctc | 960 |
| aaggccgatg | catggtcagc | ccttgttagt | ttagtgaaatg | aacaaacaac | actgaagaag | 1020 |
| ctgcccttga | aaaaccgggg | catcgtttaag | ggctttgagc | agaggataga | agacagtggg | 1080 |
| gggggaggct | cakgaggaa | tgggatgtca | agctgtgggg | cagctgcaag | accttgcag | 1140 |
| catttgggtg | aaatttcyta | ggggctacca | gggggcaggc | tgtgcttggg | actagaggct | 1200 |
| agagaggtgg | ggaaggctca | gtctctgtgc | tcaagagaca | gccctctgga | cagagcagg | 1260 |
| cagctcctcc | atgacacagc | tgtccacaag | cttcggagca | cagctccttg | ttagttagtg | 1320 |
| gtggtgttag | gcagggtggg | aggtggggga | agttgaaagg | tatcctgggg | atgagcaaa | 1380 |
| tctgatttgg | gggtgaagg | gaacatgcaa | caatgaacc | agttcaatgt | ttagggcaaa | 1440 |
| cgtttaatgc | aggaagcagt | gagaggttaag | actggagcca | taagcaggca | gaagctcgtg | 1500 |
| gagacccaag | tgcccagatg | tggacttttc | cttataggca | gtggagctcc | ctgaagggtt | 1560 |
| ctgaagcaga | gaagagcata | catagtcagg | tgtgcttctt | acctggacta | ctgctgagg | 1620 |
| atatttagga | tgcagcatcc | tctggatggg | tgtctataata | ataactattg | tgacaaagct | 1680 |
| tcttctgtg | gagctgttgt | gtttgcaaat | cggaccaagg | tcccaggcat | ccaggccatg | 1740 |
| gagctaagtt | cctagcccag | gtctctgtgc | agggcataag | tcattcagtg | tgccaaacct | 1800 |
| ctgaaaagta | cccggcccc | tttattttacc | atactacaca | cagccagttc | accttctctc | 1860 |
| cctgagcacc | tgtcgtgcc | gaattcgata | tcaagcttat | cgataccgtc | gacctcga | 1918 |

<210> 219

<211> 1026

<212> DNA

<213> Homo sapiens

<400> 219
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 acttccacag tcaagttaca cttcataaaa attctaagct ctttttcaga agccacaaat 180
 ctatccttct ttaaagtctt caaactttga ttgtgtaaata aaatactcag aaacaagatt 240
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 gaaaagaata gaaatttgac ctgatctata aaaatgaaag tcgctgggca aagttttggc 600
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 gcaacttcat cttcctaaaa tgtcactttc ctttaaggcct gctctgttca aaggccagtt 960
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 cctcga 1026

<210> 220

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 220
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 gccctgctg gaggggtgct cccagtttag ctgctcgagg gtcaggggtc agggaccac 180
 ttgaggaggc agtctgcccg ttctcagatc tccagctgca tgcgtggaga accactgctc 240
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 ggtgggctcc acccagttcg agcttcccgg ctgctttgtt tacctaagca agcctgggca 420
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 gctagcaatc agcgagactc cgtggggtag gaccctctga gccagggtgg ggatataatc 540
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 ccctgacccc ttgcgttcc cgagtggaggc aatgccttgc gctgctttgg ctctgcatg 720
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 aaaaaaaaaa aaaaaaa 1757

<210> 221

<211> 752

<212> DNA

<213> Homo sapiens

<400> 221

| | | | | | | |
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| gcacagtgat | tccagagaga | agtccttctg | cctccatcta | tggaaaaact | tctcacattg | 120 |
| tatttattac | tatatgtttc | ttactggagt | gtctctccta | ctggacaggg | agcagggtta | 180 |
| tttattgctc | agtcctcagc | ccctggactt | aggcagactc | atagtagaca | tttgggaaat | 240 |
| gcttgggaaa | gaaaggagg | gaggagagag | gaaggactcc | atggccatgt | ctaaatgccc | 300 |
| agcaatgtca | tagaggttat | gggggtgcag | gagaagacac | agccctccct | ctggcagcta | 360 |
| ggatagagcc | tagctgctgt | taaagacagg | cagctcattc | ctcacctggg | ccaagctgca | 420 |
| gctggtcate | tctgcccctt | tctccttcca | tcttatggga | gcttttatgg | agtcagaagt | 480 |
| gagtggagca | gacctgggag | agccctacac | tcaggaagaa | tgtaggctgc | agaaaggaac | 540 |
| aggtgtcctg | gagttagctc | aggaaggtct | tgaaggaagg | ggtaacyag | cagatggcaa | 600 |
| cccagtgact | tttggtgctc | tctgaagcca | cagaggaaaa | cagtagcaac | rrratraaat | 660 |
| aaaaataaat | aaaaataaat | aaaaaagcaa | agttcccaag | gaaataagat | gggggaattc | 720 |
| gatatcaagc | ttatcgatac | cgtcgacctc | ga | | | 752 |

<210> 222

<211> 1602

<212> DNA

<213> Homo sapiens

<400> 222

| | | | | | | |
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| gatttgagtt | gggatgacat | tattgatgat | tagctggggg | agtttttgtc | ttcacagtgt | 120 |
| tttctcccca | tgtatgaatg | tttctgtctc | ctgtctttac | tgaagtcttg | taaagctgtg | 180 |
| agtggactta | tgtgcctcct | gctgccgagg | cttggtctgc | tgctcctcct | accgagtggg | 240 |
| cgatgcttct | gctggattcc | ggtgtactcc | ctcattacct | gccttgctga | gtgctcagtt | 300 |
| gttctgctgg | atccagggtt | tgccgggagc | ttccaggta | acaggcgcca | ggcctgcttc | 360 |
| tccacctgct | gctggctcct | cctgctgctc | tggtgggtgt | cccgggtgag | tgaggccgc | 420 |
| cctctcatag | gcagccctca | tatgatggct | ccagcactt | tctgtccac | cgttaggggc | 480 |
| cctgggacct | gtgcttccag | cgaccagat | gggtgaggct | gtaacagcct | gggcccggct | 540 |
| cctctgccct | ttggtgaccg | tgatggggag | gtgtccacaa | agcaccctat | atgttggtt | 600 |
| atcctcccg | caggtctgta | gtctctaccc | ggtcaccct | tcttctggg | accatgccc | 660 |
| agatcagctg | ctaccctcaa | gctctacat | tagggggccc | aggcgtgttc | agggaaggct | 720 |
| actgggtgcc | accttctccc | ccatcatcac | gctcactgct | ttctcttgat | gggtaaggct | 780 |
| tcccgaatga | tgggaactaa | cagtgggtgt | gaagtcgagg | cagacttcat | caggcattta | 840 |
| gcacccaagg | ggtggctcat | gagtgcagat | acagtgaggg | ggccggagag | gggctgggct | 900 |
| gggctgacct | gggaggctga | ggctgatgga | gagtgggcag | gtagggtgga | gaggcaggaa | 960 |
| ggttggtggc | agccacatgg | ctgagggcta | gagcctggcc | agggagtctg | gagagaggca | 1020 |
| gtgggtgggc | tgggggttca | gcctgtgaa | ggggagcact | ggtcagtggc | catacccat | 1080 |
| ggggtgaagg | cctgggcagg | gcccaggggc | agcttcgagg | gtgacctgga | gctgctcagg | 1140 |
| aagtgagatg | gcccagcctg | acctgacct | tggttgga | ggaacgggat | ggagaagtgt | 1200 |
| tgtcctgggc | cttcagcgag | tgtgacattg | tcattgttgg | gatatgctta | aagatctgat | 1260 |
| tgcttatgac | atgccttgta | gcgctaccag | catcttgcca | tttggcagg | ctagtccagc | 1320 |
| tcgctgtttg | cacgtcttct | gtcttattcc | tagaagagag | agttcccagc | ttgcttgatt | 1380 |
| tccccccatt | gatgggaggc | tcacactttt | atgggagact | cattttactt | aggccttctg | 1440 |
| aggatagttt | cattctgata | gttttttttt | tttttttttt | ttggagactg | agtttccctc | 1500 |
| tgctgccccg | gctggagtg | agttgtgtga | tctcggtcca | ctgcaagctc | cacctccag | 1560 |
| gttcatgctc | gtgccgaatt | cgatatcaag | cttatcgata | cc | | 1602 |

<210> 223

<211> 1873

<212> DNA

<213> Homo sapiens

<400> 223

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| ttatgcttta | tttaacacat | ttccacgaga | catgtgttcc | catgaccttc | ttccatgtcc | 120 |
| acctccacag | ttttgtcag | gttctcgctc | cctctcccag | gcctctctcc | actctatact | 180 |
| ttcaggaatt | ctacccatgc | aaagcccatc | tcagcttcca | cctcactcct | gacttgacac | 240 |

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ctcctcatgc agcctgcctg cctgggcgct tgtctagatg ctctcacctc gttctgcctt 300
ggattactaa aacttacttt ctgtcttgct ttctttcctt ctggagttct tgagggggag 360
tgcagcttct ttacaatgtc tagatccctg tcccatccac gcacactgca cagatacact 420
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cgataccgtc gac 1873

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<210> 224

<211> 941

<212> DNA

<213> Homo sapiens

<400> 224

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gtcatataaa tggaattcta gagtatgttt cctthggagt cgcaccttht acttaatgct 240
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<210> 225

<211> 1715

<212> DNA

<213> Homo sapiens

<400> 225

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cccagaacac aacgagtatg ccctgggtgc ggcatggcac agthctggct cctacctgga 180

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atgaggtggg ttcagaagct ctcccatctt cacagcaacc ctggcactgg cttctcaatg 1620
ggaggggaagt cagcagagaa actgaagtgt tagacactat gtgtcccacc accccattac 1680
agagacatat gacaatgaaa aaaaaaaaaa aaaaa 1715

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<210> 226

<211> 945

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (295)..(295)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (875)..(875)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (914)..(914)

<223> n equals a,t,g, or c

<400> 226

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gaatgggtgaa atattaagtg ctttctcccc caggttcagg attatgacag ctatgtccat 60
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aagaaataaa atatcaaacg attggaaaga tgtaaatgtg tcatcattca tagaaaacat 180
gattcataga tatacataca cgaatgcttt gaattcataa gtagattcag ccagttgctg 240
gatataaagt caatatacaa aaactatttt tatagacatg aaacacgcaa tgagnaaaaa 300
aatttaacca tttttagtag catcaaaaaa ccccatacc taggaatatg aatttgtagt 360
actatttggg atatgttgat ggatatttat catttccagt ttgggattat tataaagaaa 420
atagccctga acatttgtaa tatatgactt ttggtgaatg tagcattcat ttctgttgat 480
tacaaactca ggggtgaaat tgttgagtcc taaggagact atagatgtat tcaacttcag 540
ctgatatggc taaataaatt tgcgaaaaag attgcatcaa gttatgctcc catcagcaat 600
atgagagttc ctgtttttcc acattgtcag caacactttg tactgttact ccttttaatt 660
ttagccgatt tggctgaagg tgtggtaata tctcattgta gtggccaggc gtggtgctca 720
cgctgtaat cccagcactg tgggaagcca aggtgggccg atcacgaggt caggagatcc 780

```

```

agaccatcct ggctaacatg atgaaaccct gttgcctgta gtcccaacta cttgggaggg 840
tgaggcagga gaatggcatg aactcgggag gcgngccttg cagtgagcct ccagcctggg 900
caacagagtg agantctctc aaaaaaaaaa aaaaaaaaaa tcgag 945

```

```

<210> 227
<211> 1538
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (112)..(112)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (147)..(147)
<223> n equals a,t,g, or c

```

```

<400> 227
ccgggttcgg ctctgtgtca gcagccgggc ggcgctcggg cgggacatgg cagcctgtac 60
agcccggcgg cctggccgtg ggcagccgct ggtgggtccc gtcgctgact gngggccggg 120
ggccaaggcc gctctgtgcg cggccgnagc tggagccttc tcgccagcgt cgaccacgac 180
gacgcggagg cacctctcgt cccgaaaccg accagagggc aaagtgttg agacagttgg 240
tgtgtttgag gtgccaaaac agaattgaaa atatgagacc ggcagccttt tccttcatag 300
catttttggc taccgaggtg tcgtcctggt tccttggcag gccagactgt rtgaccggga 360
tgtggcttct gcagctccag aaaaagcaga gaacctgtct ggccatggct ccaaggaggt 420
gaaaggcaaa actcacactt actatcaggt gctgattgat gctcgtgact gccacatat 480
atctcagaga tctcagacag aagctgtgac cttcttggct aacctatgat acagtccggc 540
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cactgatcag gttcccatcc aacatgaact ctttgaaga tttcttctgt atgaccagac 660
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ccccttctac atgggcatga ggggaagccca gaattccac gtgtactggg ggcgctactg 840
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tcggattcct cccttctccc tggaaagcaa taaagatgag aagacaccac cctcaggcct 1140
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tcattccaca attgtcgcag aactcttctc tcccatacat gggccacagt gggctcttta 1260
atgtgattgt ggggttcttt ttgtggggag ggggtgtata acttttcttc agaagacca 1320
tgtgggacac ctccaaggct ggcctcctca taagccctgc ctacaccatg ttccagtaaa 1380
cctctccacc aaggaaactgt gttcagctgc cacaggcctg gaggagtttc ctggcctgtc 1440
acgtgaggtt tgatcagtaa accagtgcas gyttggccaa aaaaaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaactcga 1538

```

```

<210> 228
<211> 663
<212> DNA
<213> Homo sapiens

```

```

<400> 228
ggcacgagaa accatgaaag tcctttcttg gatccacttt atcttgatta gtctgcattt 60
tactagttca ctggatccct cctctagggg cctggggact ttcactgatg ctcttcctga 120
ttctagagca aagggtgtggg aaggggaaat ggaggaatgc cctcctgtct gtgtcgttct 180
ctgtgccaca gctacagatg cagaagggtt ctctggatag cacacctctg aatgtaaatc 240
atgataaaat ggatatttgg aaacttactc ctaagctgtg atttaggttg tatttctact 300
tctggactgc ctcaatatca agggctgaga cttttgaatt ttgaatatc gttgggtttc 360
atgttaagaa gcctgtggtc taggagtgtt attcagtgtt tcttttctctg ataaacactt 420
tgaatatattt ttttgtgttt ttgtttcctt ttctgaagct gttcctcctt ttaaatattt 480

```

```

ttaatcacat tgataaaatc tatccttcac cacctctggt tctactatag ttgattttta 540
ttttaaatgt ttaattgtat ttgattaaac acttaactgg attttggaat aataaaactc 600
tcgtccaatt tggcttttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaa 663

```

```

<210> 229
<211> 1816
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (504)..(504)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1405)..(1405)
<223> n equals a,t,g, or c

```

```

<400> 229
gcgtggatcc aagatggcga cggcgatgga ttggttgccg tggctctttac tgcttttctc 60
cctgatgtgt gaaacaagcg ccttctatgt gcctgggggc gcgcctatca acttccacca 120
gaacgatccc gtgaaatca aggctgtgaa gctcaccagc tctcgaaccc agctacctta 180
tgaatactat tctactgccct tctgccagcc cagcaagata acctacaagg cagagaatct 240
gggagagggt ctgagagggg accggattgt caacacccct ttccagggtc tcatgaacag 300
cgagaagaag tgtgaagtgc tgtgcagcca gtccaacaag ccagtgacct tgacagtggg 360
gcagagccga ctgctggccg agcggatcac agaagactac tacgtccacc tcattgctga 420
caacctgcct gtggccaccc ggctggagct ctactccaac cgagacagcg atgacaagaa 480
gaaggaaagt gatcaaat gggnetctcg ctgggacact tacctgacca tgagtgcgt 540
ccagatccac tggttttcta tcattaactc cgttgtgtgt gtcttcttcc tgtcaggat 600
cctgagcatg attatcattc ggaccctccg gaaggacatt gccaaactaca mcaaggagga 660
tgacattgaa gacacatgg aggagtctgg gtggaagttg gtgcacggcg acgtcttcag 720
gcccccccca gtaccccatg atcctcagct ccctgctggg ctcaggcatt cagctgttct 780
gtatgatcct catcgtcctc tttgtagcca tgcttgggat gctgtcgccc tccagccggg 840
gagctctcat gaccacagcc tgcttctctc tcatgttcat gggggtgttt ggccgatttt 900
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cggcaactct gtaccctggt gtggtttttg gcatctgctt cgtattgaat tgcttcat 1020
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ggttcgggat ctccctgccc ctctctact tgggtacta cttcggcttc cgaaagcagc 1140
catatgacaa ccctgtgcgc accaaccaga ttcccggca gatccccgag cagcgggtgt 1200
acatgaaccg atttgtgggc atcctcatgg ctgggatctt gcccttcggc gccatgttca 1260
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tcctgktcct tggtttcac atcctggtgg katcctgkta acaaatcagc atcgtcatgt 1380
tgkacttcca rctgtgtgca gaggnattac cgytggtggt ggagaaatty ctagtctcc 1440
gggggctctg cattcwacgt cctggtttat gccatctttw atttcgttaa caagtactg 1500
cagcgccaag cggcatccac caagcatcaa gttggagaaa agggaacca agcagtagag 1560
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ctcttttttag ggggaatggg aaacggacac ctcataaagg gttcaaagat catcaatttt 1680
tctgactttt taaatcatta tcattattat ttttaattaa aaaaatgcct gtatgccttt 1740
ttttggctcg attgtaaata aatataccat tgcctacaa aaaaaaaaaa aaaaaaaact 1800
tctcggccgc aaggaa 1816

```

```

<210> 230
<211> 406
<212> DNA
<213> Homo sapiens

```

```

<400> 230
aggttttcca gaaagttatc agatcttgct ttcttgatta gcagcagtta gcgggggtgga 60
taaaagcacc ccttcagagc aatctcattt ccatttcttt caggccactt attttttcca 120

```

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| acttttttttc | cgtatcttca | taaagtgttc | actcttcttt | gttagtattt | cttagtctct | 180 |
| tgagtcaaga | aatatctact | gagtatgatt | gcatgcataa | gtagtgtgcg | ttagagatac | 240 |
| gatacctgta | agacaccaca | gtgctgggta | gatecgggtg | ccattgtctg | ttgccagggc | 300 |
| cgaagtggc | atcttgtaag | tgttcgaata | agcaccatgc | cgtgggataa | gaaataaaaag | 360 |
| tgtgtgcctc | atctgtaaaa | aaaaaaaaaa | aaaactcgag | ggggggg | | 406 |

<210> 231

<211> 1495

<212> DNA

<213> Homo sapiens

<400> 231

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------|
| cccccggtc | gcaggaattc | ggcacgagct | gacatatatt | tgagaaactg | ggctactgaa | 60 |
| agccctaacc | ccacttggct | gcattttatt | tggttaaccag | tgaggcaaac | acccttgcca | 120 |
| gacccttacc | atccatcttg | atgtgggtcc | tgcactggac | actgcttggg | tacgggcctg | 180 |
| cccagatctt | gggaatgtgg | gcagtggctc | ctctgaagca | ccagtgggca | gaggatgagt | 240 |
| catggtatcc | tcccggcacc | cctccctctg | ccttgcatct | tacttgtgat | ccaggctactt | 300 |
| cctattgaag | acagtggacc | agcacatgaa | gctggccttc | tccaaggtct | tgcgacagac | 360 |
| aaagaagaac | ccctctaata | ccaaggataa | aagcacgagt | atccggtact | tgaaggccct | 420 |
| tggaatacac | cagactggcc | agaaagtta | agatgacatg | tatgcagaac | agacggaaaa | 480 |
| tccagagaat | ccattgagat | gtcccatcaa | gctctatgat | ttctacctct | tcaaattgcc | 540 |
| ccagagtgtg | aaaggccgga | atgaccacct | tttacctgac | acctgagcca | gtggtggccc | 600 |
| ccaacagccc | aatctggtac | tcagtccagc | ctatcagcag | agagcagatg | ggacaaatgc | 660 |
| tgacgcggat | cctggtgata | agagaaattc | aggaggccat | cgcagtggcc | agtgaagca | 720 |
| ctatgcactg | agatgccttg | gccatggcac | aagagaaacc | agccaggaaa | aaccagacag | 780 |
| actttcacac | taaagaagag | gcctccattt | ttttttttct | tttttttatt | ggtgtagtta | 840 |
| cgaagccttt | caggctgctt | ctgtttaaaa | tataaaagaa | aactttgccc | cctttgcatc | 900 |
| ttcataaacc | tgctgcgcca | gactcctcag | ccgatgggtg | ctctgggttt | ccttgagtgt | 960 |
| catatgtcct | agaaagtgtc | tggttgactc | ttttttgtct | ggggcctggg | gaaagggcct | 1020 |
| ggactgtgaa | aagaaatgtg | gccccctttc | atcttcaaga | gagatggaat | taatgatgga | 1080 |
| tggaccctgg | agggaatctc | cccagccgac | ttccactggg | ctgacagact | ttgctgacca | 1140 |
| caggggaacg | atgttctttt | ctttcttcat | gatcagacat | aaacttagca | tcttaattgga | 1200 |
| agaaaaatga | ggggaacttc | aattatgatt | tattaaagac | aatttctatt | acacctctct | 1260 |
| ttatgacaag | tgacatttta | gatgtaaaag | taaaaacttt | accatgcctt | tttttttttt | 1320 |
| gttggcctaa | cattgaggcc | ttaaaacctg | aggctcctgt | gcctgatgga | attcttgtaa | 1380 |
| catacacttg | tgtatcatat | aaagatacca | ctctgtttct | cttatgtatt | cttactctag | 1440 |
| ttgtttatta | agaatgacaa | gcacgtcttt | tcaaaaaaaa | aaaaaaaaaa | ctcga | 1495 |

<210> 232

<211> 2895

<212> DNA

<213> Homo sapiens

<400> 232

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|------|
| cgacccacgc | gtccgctttc | ttctattttct | tgtggatatt | atggctaata | acacagcaag | 60 |
| tttagggagt | ccatggccag | aaaacttttg | ggaggacctt | atcatgtcct | tcactgtatc | 120 |
| catggcaatc | gggctggtac | ttggaggatt | tatttgggct | gtgttcattt | gtctgtctcg | 180 |
| aagaagaaga | gccagtgtct | ccatctcaca | gtggagttca | agcaggagat | ctaggctctc | 240 |
| ttacacccac | ggcctcaaca | gaactggatt | ttaccgccac | agtggctgtg | aacgtcgaag | 300 |
| caacctcagc | ctggccagtc | tcaccttcca | gcgacaagct | tccttggaac | aagcaaattc | 360 |
| ctttccaaga | aaatcaagtt | tcagagcttc | tactttccat | ccctttctgc | aatgtccacc | 420 |
| acttctctgtg | gaaactgaga | gtcagctggt | gactctccct | tcttccaata | tctctcccac | 480 |
| catcagcact | ttccacagtc | tgagccgtcc | tgactactgg | tccagtaaca | gtcttcgagt | 540 |
| gggcctttca | acaccgcccc | cacctgccta | tgagtccatc | atcaaggcat | tcccagattc | 600 |
| ctgagttagg | tggtcttttg | tttttggttc | ttcttgtctt | tgtcttttat | tgaaggaaa | 660 |
| tcaaaaaatg | gctaaacaga | atcttgaggg | catggcccaa | ataactcatg | agttccaagt | 720 |
| tgaacatgg | ttgtgcaagt | tggacattac | aatgtaaaac | acattttctt | caaacacgtt | 780 |
| ttcccttttg | tttcaaaaaa | tgtaatat | ttcccccaagc | gttttatatt | tatgtatttt | 840 |
| gtattcaatg | tgaggcttat | taaaaatagt | gattctaatg | taagaatcag | ctaagatgca | 900 |
| ttatatatat | tttaattaaa | attaaaactt | cagatatattg | tggattacaa | tcctcattta | 960 |
| cttccaatgt | gactaaaaag | agaaaaaaa | tcactgtgtc | actttaaaga | aaaatcttct | 1020 |

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aagggatttg gattttactt tctttagaat gacaagtga tcatattgac attttacaat 1080
cttagatttt tctttttttt tcttttgaga caggggtctt atccgtcgcc caggcgaggag 1140
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catcttagtg cccaagtag ctgggactac aggggtgcac taccacaccg ggttgaattt 1260
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tcattggatg tttcattttt gacactaatt ttttctggac aaactcttta tgtgtttttc 1560
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gaaaatggaa gaaaaaggga aaaaagctaa ccggataacc aatttgttat aagttggttt 2520
tcaacaaaga aatttagcag ccaagtaagg tttcaaggga atattaactt ggtatcaggg 2580
ctactttttt tttttttttt ttttttactt gcatgtcatc cttaatgtct aacatgaaaa 2640
atcaccaaag agtatggtt ttatcaagaa tttgtgttgg gagtaaaaaac tgctttatag 2700
ctcccaaatt aggaagagaa gagcagaaat cctctggggc atttaaccat ctggcagaat 2760
tgttgctgca cccttatccc agttataaga cagtcaaat gactatttcc taaatattgt 2820
gagtgtatga aatgtgaaat taaagcaaaa actggagact tttaatgtaa aaaaaaaaaa 2880
aaaaaaaaa aaaaaa

```

<210> 233

<211> 2150

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (874)..(874)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1198)..(1198)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1201)..(1201)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1266)..(1266)

<223> n equals a,t,g, or c

<400> 233

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gccggtgtcc tgctcgccgt ccccgccatg ctgtctctag actttttgga cgaatgtgcgg 120

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| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------|
| cgatgaaca | agcggcaggt | gagcttgccc | gtcctctttt | tctcctggct | cttcttgccc | 180 |
| cttcgaggct | gctgctgcgg | ggccccggcg | accccagggt | tctgggtgga | gggtctgagc | 240 |
| tggctctgata | cccgggtcat | tcgctttctt | tggagactgt | ggccagaggc | cgccttgccc | 300 |
| gcctcattat | ttttaacccc | gaactgattc | agggcctacc | tggggcgggg | cgggaagcgg | 360 |
| tgtcttcacg | ttccattcct | cccactgagg | caggggagca | aatggaaacc | gtacgcgctt | 420 |
| gaagtgggag | ttgggggtgct | tattgtttta | gtcattttta | tgcggcggac | tcttgatttc | 480 |
| tccagtcgga | gcgactccag | gtgggttcgg | gagagacgag | gtttagccgg | tttctggggc | 540 |
| gctcaggaag | gcgattggag | gccccacaaa | aaccgttttg | ctgctttcag | ctccttgcaa | 600 |
| cccttttagta | gagctgaacc | gtagcgggct | gcaccgactt | tgacttgagc | cactctgggc | 660 |
| tccgagttgg | aacagttaca | ctacttgccc | ttgcgtccgc | ttagcactaa | ggcggcagcc | 720 |
| ctcgggaatct | atgggttttac | agtccaatat | cagtgcacag | gggatctgga | aatgtaggtc | 780 |
| tcctgatttt | gtccttacac | tttactttga | tcttctagat | cgtatgcca | atagtactga | 840 |
| gaatattggt | gtaattattt | agtccttaga | aaangttgtt | ctgttttatc | ttttgcgcct | 900 |
| agtgtgtctg | tagagcctag | ttttgctgca | tcggactttt | ttttgtttt | aaacagtatt | 960 |
| ttactgttat | gattatcctg | atgtcaccat | taaggatttt | tttttcctt | ggacttgcat | 1020 |
| ttttgtact | tataactgcc | acttagggaa | gtagatacac | aacctttcct | tactccccct | 1080 |
| caggccttag | ctagctcagt | gtcaattctg | tcagtcagaa | ttgagcattc | tataaaaatt | 1140 |
| gcgcaaacgt | tactttatgt | ctttatgaca | acacttcaaa | tttttacttg | tatagtntg | 1200 |
| ncttttttta | atccatattt | ggatttctag | atgccacaga | tatttctctg | aggaaaagt | 1260 |
| ttattntgag | tctgatattt | attgactcta | tgctagggtc | aatgagagaa | atgcaaagat | 1320 |
| agttaagaaa | gactcggcct | tcaaggagcc | taaatgtgta | gaaaaggact | aaggcaaac | 1380 |
| aataactttt | ttgagctctt | gccatgtgtg | aagcacttta | tacacctgta | aggtaggtaa | 1440 |
| cgttggtctt | attaaacatg | aagaaaatga | gactttgtga | gaagcaatac | agtatagaag | 1500 |
| ttaagaatat | ggactctaaa | gctagatttc | agagggttga | agtagctctg | ctacttactg | 1560 |
| gctgtgtgac | tttgagcaga | ttacttaacc | tgtctgtgcc | tatgtttact | tttattgttg | 1620 |
| taaaaagata | tgcaacataa | aatattccat | ttcaaccgtt | ttacgtgta | tacttactg | 1680 |
| acattagtgt | cattcactat | gttggtgcaa | cgtagggctg | ctatgaagat | taaatgagtt | 1740 |
| aattcatata | aagccctcag | aagagtgtct | ggcacatggt | gagtattggc | tgtactgtgg | 1800 |
| tcgatgtcat | tgtagagag | ctttagtgat | ttgcttaaga | cagaaggtag | actgggtgcg | 1860 |
| ggtggctcac | gcctgtaatc | ccagcacttt | gggaggctga | ggcaggcgga | tcacaatgtc | 1920 |
| aagagattga | gaccatcctg | gccagcatgg | tgaggccccc | tctctactaa | aaatacagat | 1980 |
| actagctggg | cctgttggcg | cacgcctgta | gttccagcta | ctcaggaggc | tgaggcgggg | 2040 |
| gaatcgctg | ggaggtggag | attgcagtga | gctgagatcg | tgccaccgca | ctccagcctg | 2100 |
| gtgacagagt | gagactccgt | ctcaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | | 2150 |

<210> 234

<211> 3102

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3096)..(3096)

<223> n equals a,t,g, or c

<400> 234

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| aaacctctac | caagaatatg | gtgttttttt | tggttggttg | ttttagaaaa | attgggattt | 120 |
| ccccccaccc | cgccccaccc | agataaacta | tatctacact | gtctcgtaaa | gttctctgac | 180 |
| acgatctttc | tgggctctac | atttcctact | agtttggtgc | cagaaactgc | aagttgacat | 240 |
| gaatagagga | caaagggtgt | gtcttgcttt | tgtctctctc | ttccctccct | gcaactctct | 300 |
| ckssctcct | cccactctct | tcccctcccc | cctcctcccc | ctgtctctca | cctccccac | 360 |
| ccccactct | ctctcatctc | tcgctgtgtc | ctgtgtatgt | gtgggtgtgt | gtgtatttgg | 420 |
| gtgtgtaaat | gttgggtctt | ccactactgg | attttgtaat | ctaggataaa | tcactttttt | 480 |
| tggggacttt | gattttgtct | cattacgttt | tcattttttc | tgagcactga | ctgttctgaa | 540 |
| agctgcacaa | aacgtagaaa | gaagacatag | cgcctgccag | ggaataggaa | atgagggcac | 600 |
| ttacacatta | atgtgaatta | gtaattgtgg | tatagaaatg | ttttatagt | aaagattcaa | 660 |
| atttgctttt | caagaaaaat | gccaaaagct | atttaaataa | ttcgagggtta | catcgtargt | 720 |
| tttgattttt | ctcaatttaa | gatacagaaa | tacagcaagc | cttaataata | agtttcctaa | 780 |
| agtttcttca | agtatttttt | aaggtggaga | aatgcaggaa | ttgtataacc | agaattgttt | 840 |
| ctgccttttag | cttttcagaa | cttgagatgt | ggcagcactg | gactgggttt | ttttaaatgt | 900 |

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|------------|------|
| taggactagg | aatgtttgct | cttgtaatt | atgaattaat | tgattattaa | gtttagaatg | 960 |
| cattttttaca | agtatctaac | tatcaaattg | tgtttagtaa | cttgagtgtg | tgcaacaagt | 1020 |
| tgatcaacag | caaaatagag | ttctgaattt | cttttaaagt | gatgatatat | tatttttgtg | 1080 |
| aacttttgtg | ttgaaaatgt | ttatttctgt | ttatgggtgt | atcattctga | ggtagaggct | 1140 |
| ttcttatttc | ctttgcattt | tgctagagct | gtgctgagtt | cagcatttgc | ttatttaacc | 1200 |
| actacataat | gacagaccag | ttattaggtg | ttagcatgtg | tggttaataat | aatagtgga | 1260 |
| cttcacactt | acatcaattc | agtgcagggg | catagaataa | aatattaaat | attggcagat | 1320 |
| gtatgaaaag | aagtgtgagt | taaaaatatt | gaatattggc | aggtgtgaaa | acaagtgtca | 1380 |
| aaattcctca | tatagagaaa | ataattttga | gttttagagta | ttatctttta | attaagtgtg | 1440 |
| gtctaaactt | aactttctgt | aaaggcactt | tggtggtttt | ccaaagatgt | tctagatcta | 1500 |
| tttggttgct | ctatagtcaa | acagctcttt | tgaagacaac | tgtcttattt | tattacaaat | 1560 |
| tggtcttgaca | tatyyatact | gtaacattgt | aatattgctg | tgctgtacat | tttggccctt | 1620 |
| ackaaatacg | tctttttcag | aactgttaaa | gttttgatgt | acatcragct | gaattctgtt | 1680 |
| tttaccagtt | tcaaaacctt | caagtgatat | gtggaaaaaa | gtgaatgaga | cctctgatag | 1740 |
| gggggttttca | gaaccttggt | cacaccaaaa | tgtgacagtt | ctttcatgtt | ttcctaaacc | 1800 |
| aagttaaaaat | tacatgtata | ttttgggtgt | aagggttgatt | tttaagatac | ttctgatttg | 1860 |
| tacaaaagga | atgttttcctt | tataaatcac | agaagaaaaat | gacaatatct | gttggatatt | 1920 |
| tgatataaatt | taatgggtgt | ataaaacctt | taagaggatt | catgggtgaat | atatgtgata | 1980 |
| acatcttttat | actttgaaaa | atgttccact | tacccttcag | atatttggtg | taagttaatt | 2040 |
| caattcttaa | tactttaatt | ttgtcccaac | aagggtctta | tggtgtggtg | aagagaattt | 2100 |
| atttactaaa | tgacttatgt | ataaagtga | agatagttaa | cttatctgac | tttgatatta | 2160 |
| gatggctgac | attagtgcac | ataatgcaga | gtttaacctt | gattcttcaa | cagagtccag | 2220 |
| atttaaatgt | ctacttagtt | aattagttag | ctgatattct | tccacaatta | atatattcaa | 2280 |
| tttcccatca | gtatatcact | ttaaatttta | tgtttttcta | aggaaacttt | ccacagaatt | 2340 |
| ttaaacaact | gatgcatcca | tactcagggt | gtaggagaa | tactttgcat | ttaaaaaccc | 2400 |
| tggtccacctg | tcaccagcac | aagagaatta | gagcttcagt | gagaatttag | aaaaattata | 2460 |
| ctaaagttag | atgcattttt | tctcattttc | agcaagactc | ctctaagcat | ttactcattt | 2520 |
| actgtattcc | tgctctgaag | atgtggatac | agaattagtc | actcttgta | ctttatttat | 2580 |
| ttatttggtt | ttttttaacc | atctgtgtac | attcctttca | tagggtagag | ttctagttct | 2640 |
| agaagttcct | attttgtttt | tggtgtaatg | tttgaatact | atttaatatc | cggttttaat | 2700 |
| attgctggat | ttgtacactt | tggttacttg | tgcatgttta | aaagtaatcc | actttcttgt | 2760 |
| ttaatatacc | agatacatag | caaaagcagc | ttggaataat | tatagctggt | tatttggctg | 2820 |
| tgctcagtta | ctatattaag | atcttgtact | gtgtaacagt | aactcttttt | tgcttttcag | 2880 |
| taattttaata | tgttcactta | acaaaatacg | aactttgaga | tgcaactaaag | ttttgtttca | 2940 |
| gcagtggtc | aaaaaatttc | agaaattact | tttgtaatta | tttgcaatta | attgttcttt | 3000 |
| tatcttataa | ttgtttaagc | ctgtgatctt | tcttctccca | gctaagagtt | cttcaataaa | 3060 |
| tttaagaat | acaaaaaaa | aaaaaaaaa | aaaaanaaaa | aa | | 3102 |

<210> 235

<211> 865

<212> DNA

<213> Homo sapiens

<400> 235

| | | | | | | |
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| aaaaaaaaaa | tacgttcccc | ttggttaact | gattttttta | tccagggtgg | acattttttc | 120 |
| aacctttatt | aaaaagacaa | ataaactatt | ttgtagaaga | tcagactcct | acttaactgg | 180 |
| aagagaaatg | tctattaaat | gtctctcctc | tttctctggg | tcaagaccat | gtaattttat | 240 |
| gcttcagaga | tgaagatact | gtttgtttac | aaagagttta | gtttttaaga | catccaaaac | 300 |
| tctatgctag | agcaaaaaatc | aaatagcaaa | ggacactagc | cagaaaaatac | agtgtgtgtg | 360 |
| tgtgcacctg | ttgtgcctgt | gaacaacttg | acagtgtaac | agataaggta | actgaagatg | 420 |
| gtggatattt | gaattgtatt | agcttaattg | ctacatatct | ttggccaaaa | ctctattgtc | 480 |
| atattagaaa | catgttatct | ttttcatgtt | tattagtaat | ttatttttga | ttctttgttt | 540 |
| tctttttcgt | ccaactaaaa | caactgtaat | gtacttgata | catttatatc | aagttctaaa | 600 |
| gtatttagac | aaatccaaat | actttgtttt | tagttttttc | ctcctttcca | tcctgttaac | 660 |
| cacagtgaag | cgctgcagta | ttttgatattg | gtcagtgcta | cggagggaaga | ccatgaagac | 720 |
| tgaattggct | tgtgccaccc | agagtaaacc | tcttctcttc | ttctggaaag | atggcgtgat | 780 |
| gtttttcaag | gattctaata | aatatccgcg | agtcactctc | tgaaaaaaa | aaaaaaaaaa | 840 |
| aaaaaaaaaa | aaaaaaagg | cggcc | | | | 865 |

<210> 236

<211> 2612

<212> DNA

<213> Homo sapiens

<400> 236

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gctcttgttt tgttgttgtt gttgttgttg ttgttgttgt ttgatactga gtctcgctcc 180
agcctggcga cagagcgaga ctccatctca aaaaaaaaaa aaaaaaaaaa caaaaaaaaa 240
aacagaaaag aaacaaaaaa cgttgtttta attttaatta actcaaatag cttcatgttg 300
ctagctgccg ccctgtagaa cagcacagtt ctagaacttt cgagaccttc tccctgttat 360
ccacacttac ttacagagt agactcagca cttcgagtc cctgtccttc aggccaggcc 420
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tgagcaggct tgggcctgtc atggctggcc ggaagtgtcc ccagctcctt acagacgtg 2280
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agaacggggc cccaggagac ccggccgcca cccacccgc taccttggg tgccacaggg 2460
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2580
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa

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<210> 237

<211> 1899

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1439)..(1439)

<223> n equals a,t,g, or c

<400> 237

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| aatttttcat | aatatatcta | ttcctaccta | ggtttttttta | atcaaattaa | taaaatggta | 120 |
| ctcccttttg | tggtattggt | cagaccaaat | tttatcagtg | tccttcaccc | tttattctac | 180 |
| tcacattggt | tattttctata | cttaataagt | cctgttcact | cttctctat | aatatattac | 240 |
| aaacctgatc | attgtcacta | caccccatc | attcctgggc | tactacaata | gccagggtcta | 300 |
| cctactttcc | tttcggcatt | tggacaatct | gtgtttctgg | aagtagccca | aatgatcttt | 360 |
| ttttgttctt | atattattca | gatcctatta | ctccttgatc | tcaaccccta | caagatattc | 420 |
| ctattatatg | cttaataaaa | tccaatatcc | ctaccttggc | ctgtatactc | aataaagtcc | 480 |
| aatatcccta | ccttggccta | caagatctta | gatgactggg | atctaggaaa | cctattcagc | 540 |
| taatttcctg | caattctcta | tgtttacctg | ctcaaggttt | ttaccactcc | tcaaatattc | 600 |
| aaactgggtt | tgcattcttt | tagttctatc | tattcttttg | cagatgccaa | tcttagtaat | 660 |
| cataagcagt | ttacctctaa | attaatgcta | aatattgtaa | aagggtgtatt | ataagttcag | 720 |
| tcttttcat | attctttcaa | ccaccaagt | tcgattgaac | acatacattg | ggtcacacca | 780 |
| atcaaataag | atagactccc | aggcatcacc | gagcatctac | tactcaattc | atctcaggat | 840 |
| ctatacaagg | ggtcatttta | tcagaaacca | aagtcttgat | gctgtccgaa | aaatcacggt | 900 |
| ttcaccatga | tctcctactt | ccctagggtg | aagtataact | ttttaggata | tatcatggtt | 960 |
| gctgacttaa | cttttgattt | ttttaaatat | actcatgaca | agtatcatat | aaaacctaac | 1020 |
| cagcaacttt | gcaccagcaa | aagtttttca | acatttcaat | tcttacaaaa | tcaaatgata | 1080 |
| taaatttccta | tgtagtaaaa | aattcacaca | tctgcaaagc | ttggtttcac | taccacctgt | 1140 |
| taaaatctta | cctttggaag | ctatttatga | ttgaaaaaca | ctttacctca | ctcacaaaga | 1200 |
| gctggaagtc | tctcttcaat | ccaatatgca | cacagaagac | aaaaagctgt | atcattcctt | 1260 |
| gatgatatat | ttgaaatcat | atggccacgt | ctgtccattg | tcttcagagt | ttctaagtat | 1320 |
| ttcagaaaaa | tatgacttgc | actgtagaac | tattttaaag | aaattccatg | gtgcaaacag | 1380 |
| aaaaactaaa | acttttcatg | ttaggataat | ttattaaaaa | tacaaacaaa | tcctatgtnt | 1440 |
| acataagaag | atagtaacta | gcctttttga | gagggaaatt | tttctctcat | aacttctttt | 1500 |
| ctagtaattt | caataaagaa | taactgccat | tccaacgttt | agcccatctc | actctcttgt | 1560 |
| cttcttatgg | ccaagtattc | aagcttgaaa | tttgacagag | aaattcttgt | ccgtttttta | 1620 |
| tatcatgtgg | taagccta | aaaacatctt | ctgaaataat | tagcccttaa | aaggatagta | 1680 |
| tcttctacct | gacagaggca | aatattattg | aaaagtttgt | accttataag | cacattaatc | 1740 |
| atggagtcct | ggaactggat | tctgtctaag | actgactttt | gcttaattaa | gttcacagag | 1800 |
| atttttccaca | tatttttcca | gaacattgca | tgtagagata | ttgtcgatca | atcacataac | 1860 |
| tagggtcaga | aagatgtaac | aaggggagaaa | aaaaaaaaa | | | 1899 |

<210> 238

<211> 238

<212> DNA

<213> Homo sapiens

<400> 238

| | | | | | | |
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| gagaaaggta | aaagggcggt | tccagagcct | gagggcctgt | gagtgcagtt | tacataactg | 120 |
| ccgaaactta | aggaagcgtc | taaataaaaa | gaaacatggt | aaccacaaat | ggtttatttg | 180 |
| tttttttttt | tttttttgggt | ttccagagct | catgcaaaaa | tgcaaaaaaa | aaaaaaaaa | 238 |

<210> 239

<211> 1459

<212> DNA

<213> Homo sapiens

<400> 239

| | | | | | | |
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| gtgttgagg | ccatctatct | agatgaacta | caggtgatta | aaggaaatgg | cagaacttca | 120 |
| ccatgggaga | tctacatcac | tttgcatcct | gccactgcag | aggaccagga | ttcacagtat | 180 |
| gtctgcttca | ctctgggtgt | tcaggtccca | gcagagtatc | cccatgaggt | gccacagatc | 240 |
| tctatccgaa | atccccgagg | actttcagat | gaacagatcc | acacgatctt | acagggtgtg | 300 |
| ggccacgtgg | ccaaggctgg | gctgggcact | gccatgctgt | atgaactcat | tgagaaagg | 360 |
| aaggaaattc | tcacagataa | caacatccct | catggccagt | gtgtcatctg | cctctatggt | 420 |
| ttccaggaga | aggaggcctt | tacaaaaaca | ccctgttacc | actacttcca | ctgccactgc | 480 |
| cttgctcgg | acatccagca | catggagcaa | gagctgaagg | cacaaggaca | ggagcaggaa | 540 |
| caggaaacggc | agcatgctac | aaccaaacag | aaggcagtcg | gtgtgcagtg | tccagtggtc | 600 |
| agagagcccc | tcgtgtatga | tcttgcttca | ctgaaagcag | cccctgaacc | ccaacagcct | 660 |

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|------|
| atggagctgt | accagcccag | tgcagagagc | ttgcgccagc | aagaagaacg | caagcggctc | 720 |
| taccagaggc | agcaggagcg | ggggggaatc | attgaccttg | aggctgagcg | aaaccgatac | 780 |
| ttcatcagcc | ttcagcagcc | tcctgccccg | gcggaacctg | agtcagctgt | agatgtctcc | 840 |
| aaaggatccc | aaccacccag | cacctttgca | gcagaactat | ccacctcacc | agccgtccaa | 900 |
| tccactttgc | cacctcctct | gcctgtggcg | acccagcaca | tatgtgagaa | gattccaggg | 960 |
| accaggtcaa | atcagcaaag | gttgggcgaa | acccagaaag | ctatgctaga | tcccccaag | 1020 |
| cccagtcgag | gtccctggcg | acagcccgaa | cggaggcacc | cgaaggagg | ggagtggcac | 1080 |
| gcccctaaag | gtacccgtga | caccaggaag | ctgccacctc | ctgagggggc | cctcaaggag | 1140 |
| cccatggacc | taaagccaga | accccatagc | caaggagtgt | aaggcccca | caagagaagg | 1200 |
| ggcctggcag | ctggcagggg | ccccaccccc | gcaggactcg | ggactgtgtt | cgctgggagc | 1260 |
| gctctaaagg | ccggacaccc | ggttcttctt | accctcgcc | gcctcggggc | cagggagcat | 1320 |
| accggcctgg | tactcggagg | gagtcctctg | gcctgggaatc | taaggatggt | tcctagcagg | 1380 |
| acttggtggg | gggaacaggg | aattggggat | gggagggagg | caataaagat | atttggcctt | 1440 |
| caaaaaaaaa | aaaaaaaaa | | | | | 1459 |

<210> 240

<211> 532

<212> DNA

<213> Homo sapiens

<400> 240

| | | | | | | |
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| ccgcccacgc | gtccgcacct | cccttggtcg | tggggagggg | cttccatgcc | ctgtgtggct | 120 |
| ctcgggtggg | ctgtcgcacc | acactgctct | tcctttctct | tcacgaatca | cgcaagcctc | 180 |
| ctagtcagtt | ctgatgagat | aacctggata | tcttggttgc | cgggtgaagga | tttacatgct | 240 |
| tattatggtt | tttttgttgt | tgttgttgtt | tgtttttttt | tttgatggga | gcctcagatc | 300 |
| gccgctgttg | ctaatacatcc | atcttggccc | tgccccaca | tttctgcaaa | tttaaataatg | 360 |
| agatttgtcc | ccttaggtgc | acagtccaga | ccccatccag | tccagctcct | tttaaagcca | 420 |
| catggaaagt | cagctgagaa | tggtttggga | gccaggtgc | gctgtcttcc | gccctgccct | 480 |
| ctccctgaaa | taaagaacag | cttgacagaa | aaaaaaaaa | aaaagggcgg | cc | 532 |

<210> 241

<211> 1084

<212> DNA

<213> Homo sapiens

<400> 241

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------|
| agaagacgac | agaaggggag | ccgctggggc | cgcgattccg | cacgtccctt | acccgcttca | 60 |
| ctagtccccg | cattcttctc | tgttttccca | actcggccgc | ttgactagcg | ccctggaaca | 120 |
| gccatttggt | tcgtggagtg | cgagcacggc | cgccaatcg | ccgagtcaga | gggccaggag | 180 |
| ggggcgcgcc | attcgccgcc | cggccctgc | tcctgtggctg | gttttctccg | cgggcgcctc | 240 |
| ggggcgaacc | tggagataat | gggcagcacc | tgggggagcc | ctggctgggt | gcggctcgct | 300 |
| ctttgcctga | cgggcttagt | gctctcgctc | tacgcgctgc | acgtgaaggc | ggcgcgcgcc | 360 |
| cgggaccggg | attaccgcgc | gctctgcgac | gtgggcaccg | ccatcagctg | ttcgcgcgtc | 420 |
| ttctcctcca | ggtggggcag | gggtttcggg | ctggtggagc | atgtgctggg | acaggacagc | 480 |
| atcctcaatc | aatccaacag | catattcggg | tgcatcttct | acacactaca | gctattgtta | 540 |
| ggttgctctg | ggacacgctg | ggcctctgtc | ctgatgctgc | tgagctccct | ggtgtctctc | 600 |
| gctgggtctg | tctacctggc | ctggatcctg | ttcttcgtgc | tctatgattt | ctgcattggt | 660 |
| tgtatcacca | cctatgctat | caacgtgagc | ctgatgtggc | tcagtttccg | gaagggtccaa | 720 |
| gaaccccagg | gcaaggctaa | gaggcactga | gccctcaacc | caagccaggc | tgacctcatc | 780 |
| tgctttgctt | tggcatgtga | gccttgccca | agggggcata | tctgggtccc | tagaaggccc | 840 |
| tagatgtggg | gcttctagat | tacccctctc | tcctgccata | ccrcacatg | acaatggacc | 900 |
| aaatgtgcca | cacgctcgct | cttttttaca | cccagtgcct | ctgactctgt | ccccatgggc | 960 |
| tggctcctca | agctctttcc | attgcccagg | gagggaaggt | tctgagcaat | aaagtctctt | 1020 |
| agatcaatca | aaaaaaaaa | aaaaaaaaa | aaaaaaaaa | aaaaaaaaa | aaaaaaaaa | 1080 |
| tcga | | | | | | 1084 |

<210> 242

<211> 870

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (743)..(743)
 <223> n equals a,t,g, or c

<400> 242
 ggcacgagca gatattaaat ctcacagaaa ggtgttcctt attaatcttt acaaaattgt 60
 catttccccg gtgaagccaa tttacattaa aaataatgtt cagaaaaatgc tgctgcctgc 120
 tttctctcct cttttaccca ccccttggtc tcccagcaat cttcgccctg tatgtttatg 180
 tggacaattt ctattgtaac attctccatt ccattaactc tgccctcttc tctgaggggg 240
 gaaaaataaaa ccctaaatgg ctctaatagt tatgtatttt attttgtctc agagggtttcc 300
 aaacttctgc ttttagcttc cttttcactg ggacaaatgg atgtaagtta ttttccagtt 360
 tcctgaaaaa taatcagggg ctattttctt catctatctc aggtgcttca tgagtttcct 420
 aagatattaa ttacgggttc catacattca gaatcaaggg actcacggat atgggtactgt 480
 gttcactgct acacagagtt tttctagaaa aaaaaattct ttatttttat cttctatttg 540
 tatccaaaac atggtaaaac aaaattcctc tttagctagg tactgggatt ttttctttag 600
 gaaataactaa tagagttaca aagggttagc tataggtaga caaaagactg gcggccaaac 660
 agagcagtggt gtgaaatggg tccctgggtg acatgtcaga tctttgtacg taattaaaaa 720
 tattgtggca ggattaatag canaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
 aaaaaaaaaa aaaaaaaaaa aaaaaaactc 870

<210> 243
 <211> 2263
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1586)..(1586)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2262)..(2262)
 <223> n equals a,t,g, or c

<400> 243
 aattcggcag agcagcagcg tccggcgaga tgaaggcgct yggggctgtc ctgcttgccc 60
 tcttgctgtg cgggcgccca gggagagggc agacacagca ggaggaagag gaagaggacg 120
 aggaccacgg gccagatgac tacgacgagg aagatgagga tgaggtkgaa gaggaggaga 180
 ccaacaggct ccttggtggc aggagcagag tgctgtgcg gtgctacacc tgcaagtccc 240
 tgcccaggga cgagcgctgc aacctgacgc agaactgtc acatggccag acctgcacaa 300
 ccctcattgc ccacgggaac accgagtcag gcctcctgac caccactcc acgtggtgca 360
 cagacagctg ccagccyate accaagacgg tggaggggac ccaggtgacc atgacctgct 420
 gccagtccag cctgtgcaat gtcccaccct ggcaaagctc ccgagtcag gaccacacag 480
 gcaagggggc aggcggcccc cggggcagct ccgaaactgt gggcgagacc ctctgtctca 540
 acctccttgc cggccttggg gcaatggggg ccaggagacc ctgaccacag gccctcccc 600
 acccccaccc ggctcacccc cggccttgcc agcactctgt ctggtacctt cccctcctgc 660
 ccctgcacca gctttggaga atggatttgg agtgtcttgg gcgatccagc cagcgaggc 720
 cccccggccc ggttgcttcc tcagttcccg gctgtgtcct tgggtgcctt tctccaccac 780
 ctgtgagcag caagactgcc gcacgtggg gctgggtcca gacctcggct gccacgyccc 840
 aggacctgya gccctcacgg gggctgggga tccccatcag cacagccagg cagagatgat 900
 acccaccaca cacctggggg cccccacacc cagtcctcac ccttaacttc tgccatggga 960
 atttctccat ctgcagcagt cacacgggcc caccctgccc ttccccaggt cggcctctcc 1020
 gctgtctgga gggaagggga tttggaggga ggtgtctgct gcccccagga aagacgggac 1080
 tgggggaggc gggacagtgg gagaggcgcg ctgaggatga gagggcacag ggaggtgggt 1140
 tggggtgagg ccacatgcgg aggggcgggg cggggcgggg ctggggggac aggcaccaag 1200
 tatgaagagg atggggccag cggggcctgt ctggctatgg cgtgagcacc gctatgggag 1260
 accttggtt ggaaagtga cttgcagcct tggatgggga agggccagat gctgggtggg 1320

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|------|
| tgccctgtcac | cttgaggtga | ccatctaggg | tcagtacctg | ctgggcttag | gacagcgcc | 1380 |
| gaggctggga | atacctgtct | ctgctctagc | agaggctaaa | gcaggctaga | gcagtggagg | 1440 |
| ggtggagttg | atgaaaggag | aggagtagat | gagatggaat | ttttccagcc | tcaccttgcc | 1500 |
| ctgccctcta | gactccagtc | cccaagccct | cagcctagt | ggtgtcatgg | atggatctgg | 1560 |
| gggtgtcaga | caggcttacc | ctgtgnccag | ggagggggca | gaatgggcct | gcagcttcct | 1620 |
| gcaraggaag | caggactggg | tagcagagcc | gggaagggtg | gtggccatt | acaggggggt | 1680 |
| ccccaggggtg | tcctctggca | gggctgtgac | tgctgcaagc | tctgccttca | ccagtagctg | 1740 |
| gtgccaggac | agagctctgg | gacagcaggc | agaggccgag | cctggggccac | agctcagcca | 1800 |
| ctgacttggg | tatcagtttc | cccttctgag | aagtacagag | tgagacttaa | agaaccctta | 1860 |
| gatccccacc | agttcaacac | tccattaact | gggaagccca | gagtcctgtc | cggcctgcca | 1920 |
| agttcatcct | ggtggacagc | gggaggccct | cgctaactgt | tctcttcttt | tccttattaa | 1980 |
| taaaacacac | aatgcctagc | tggggggctg | gaaggcaaat | gccctagatg | gtgggggtcac | 2040 |
| gtctttctcc | ttctccttcc | tccttctgct | ggctgaagtg | atgactggag | ctcagcaacc | 2100 |
| actttgcacc | atgaggcagc | actgagcagc | gtagggcagc | ctggtgagag | gggcctagct | 2160 |
| cgctgccgac | agaagtcact | gcctacctca | gggtccctt | acctgggtgg | gaaataaatt | 2220 |
| tctgctgtgt | tgaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | anc | | 2263 |

<210> 244

<211> 2566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2553)..(2553)

<223> n equals a,t,g, or c

<400> 244

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|------|
| gcaaatagca | acttcagtag | atcataatat | aaatagaaaa | aaaagatcag | tgcttagatt | 60 |
| gttaatgttt | tgtttttatt | tgaattattt | tactaacttg | tttttgttt | taacctgttc | 120 |
| tcgctcagag | tcctctcct | ccccgacagg | accctattca | ggtttccct | tcttaaagtc | 180 |
| tccccagtg | aggaactctc | tcaacaagg | ccactcctg | gtgcagtact | atagcttttc | 240 |
| atcccacctc | agagtcctcc | gcaaaaagaa | caaagtgtgc | agagtaccag | tcagggtagc | 300 |
| tcctaaaagc | ccagcgatgt | ccctccatc | cagtcctagg | tttctctt | tcaccttttc | 360 |
| tggtcctttc | cccaacagct | attaatggta | ttatccattc | aggtctttct | tcacccaggg | 420 |
| ccttggtggga | ccamccttaa | tcattccagtg | gtactgccc | ctcttaggat | ataccaccam | 480 |
| cgstcacaca | ggatctccac | ccagaaacaa | tgacatctgg | ggtctttctc | cagtcctctg | 540 |
| gcatggtatt | tcttacaac | tttctacctc | ccactggcta | atagctttat | tcaagtasaa | 600 |
| ttacacgcca | taaaatttac | tcattttatt | tttttatttt | tattaaagta | ggttggttcc | 660 |
| aggatttact | ctttttaagt | ctgcaattca | cttttttttt | ggtaaattta | gagttgtaca | 720 |
| gtcatcacca | tcatccaatt | ttagcacatt | tcctcacct | caaaaagatc | cctcatgccc | 780 |
| atttgstgct | attccacatt | ataaccttcc | accctggca | accactaatc | tactttgtgt | 840 |
| ctgtatarat | tggttttttc | tgcatatttc | atataaaaat | ggaacatata | atatttggtc | 900 |
| ttaagtattt | ttgaaacata | taattttgtt | gtggaaatag | tagttgattt | tatctatgtc | 960 |
| tttatcaggc | ctttctctgt | attgaatttt | cacattgtca | ataccactca | gaaacagtgg | 1020 |
| tyatcctac | tgacagcaag | tcattgaata | ctgttggcac | tggaatttat | ccctgctgta | 1080 |
| acccaaaagg | tyctygggtt | gacccactc | agcttacaaa | gggctgtaaa | rtgaggggacc | 1140 |
| acatgggttac | mcttcgtgat | caagggtgaag | gsggagattt | gccgtcctgt | ccactgcta | 1200 |
| gaatgttgga | cgatttgcac | aagtacagag | atgtcattgt | tgtgcctttt | tcaaaagata | 1260 |
| cagtttagtg | tggtgggggt | ggcctctgtg | atgaaaagg | tatagaatgt | gatgttttac | 1320 |
| tggagccaaa | tacaccatgg | gggtcccaaaa | ctggggagct | caatgctttc | ttgtcattga | 1380 |
| aaaactggac | tctacaactg | aaacaacagt | cactgttttc | agaagaagaa | gaatatacca | 1440 |
| ctggatctga | ggctcactga | gatgaagtgt | gagatgaaga | agaagtatcc | aagaacaaa | 1500 |
| ggaaaaggga | gaagccaaag | aagttcacta | gacmaccaaa | aaagcaggta | tcttcacct | 1560 |
| gtgcccagag | gaaagaaaag | gcattggaga | aggtaactct | gaattatctg | ktgktaaagt | 1620 |
| catatggaaa | aataagcatg | tgagtatagc | cagaaaaaaa | taaaaagagt | aatgaagaca | 1680 |
| catggaatgc | tagcaatgta | aaaatgaagt | tttttataga | ctgagattaa | agatctctaa | 1740 |
| gatatatattg | caaatgagaa | aaggaagggtg | cagaaacgta | tagtggtata | gtatgctacc | 1800 |
| atttggtgtaa | agtagatggg | ggaaatatat | aaataacttc | cttgatatatg | cataaaatgt | 1860 |
| ttctggaagg | ctacataaga | actcgataaa | attgggtgcc | tctcaggaag | ggaactgaac | 1920 |
| gtgtaaggga | cagaagttag | agtccttttc | ttatatgtgc | cattataacct | tttgaatttt | 1980 |

| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|------|
| aaaccaatat | tattttattca | aaaaattaaa | aatagtcctt | taaattaaaa | ataaatcata | 2040 |
| ttttatgata | tttaaaaata | attctttattt | ctccatgcct | ttgaagggaag | gggtataaaaa | 2100 |
| gccaggtagg | aataagagaa | tagtaataac | caccattggc | taaaagaaaa | actgtgaatt | 2160 |
| tcaaaaatgt | gtgatatgtt | gagtcctggg | taagatccac | agaattacat | tggacacatt | 2220 |
| gtacattcat | ctttgtgtta | agtagcacag | gcataataag | gggttaattc | taaaaaaaaa | 2280 |
| ttgtatcagc | tggctctgag | cttttgacct | cgtgatctgc | ccgcctcagc | ctcctaaagt | 2340 |
| actgggatta | taggcgtgag | ccacaatgcc | tggccacatt | tatgtatttt | tttatattct | 2400 |
| gtatcagtta | gcctgtttat | tcacgtaaaa | gttttccacc | atgtcttatt | atccatgggc | 2460 |
| cataggtcat | ctataacaca | tataataaag | tacatcattg | ctgaaaaaaa | aaaaaaaaaa | 2520 |
| actcgagggg | gggtcccgtg | cccaattctc | ctnacatgca | tcgtat | | 2566 |

<210> 245

<211> 1835

<212> DNA

<213> Homo sapiens

<400> 245

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| ggcacgagag | ccgccctggg | tgtagcgggc | tcggctcccg | cgcacgctcc | ggcgcgtcgc | 60 |
| cagcctcggc | acctgcaggt | ccgtgcgtcc | cgggctggc | gccccctgact | ccgtcccggc | 120 |
| cagggagggc | catgatttcc | ctcccggggc | ccctgggtgac | caacttgctg | cgggttttgt | 180 |
| tectggggct | gagtgccctc | gcgccccctc | cgggggccc | gctgcaactg | cacttgcccg | 240 |
| ccaaccgggt | gcagggcggg | gagggagggg | aagtgggtgt | tccagcgtgg | tacaccttgc | 300 |
| acggggagggt | gtcttcatcc | cagccatggg | aggtgccctt | tgtgatgtgg | ttcttcaaac | 360 |
| agaaagaaaa | ggaggatcag | gtgttgctct | acatcaatgg | ggtcacaaca | agcaaacctg | 420 |
| gagtatcctt | ggtctactcc | atgccctccc | ggaacctgtc | cctgcggctg | gaggggtctcc | 480 |
| aggagaaaga | ctctggcccc | tacagctgct | ccgtgaatgt | gcaagacaaa | caaggcaaat | 540 |
| ctagggggcca | cagcatcaaa | accttagaac | tcaatgtact | ggttctctca | gctcctccat | 600 |
| cctgccgtct | ccaggggtgtg | ccccatgtgg | gggcaaacgt | gaccttgagc | tgccagttct | 660 |
| caaggagtaa | gcccgtgtgc | caataccagt | gggatcggca | gcttccatcc | ttccagactt | 720 |
| tctttgcacc | agcattagat | gtcatccgtg | ggctcttaag | cctcaccaac | ctttctgtct | 780 |
| ccatggctgg | agtcctatgtc | tgcaaggccc | acaatgaggt | gggcactgcc | caatgtaatg | 840 |
| tgacgtctga | agtgagcaca | gggcctggag | ctgcagtggt | tgctggagct | gttgtgggta | 900 |
| ccctgggttg | actgggggtg | ctggctgggc | tggtcctctt | gtaccaccgc | cggggcaagg | 960 |
| ccctggaggga | gccagccaat | gatatcaagg | aggatgccat | tgctcccccg | accttgccct | 1020 |
| ggcccaagag | ctcagacaca | atctccaaga | atgggaccct | ttctctgtgc | acctccgcac | 1080 |
| gagccctccg | gccaccccat | ggccctccca | ggcctgggtg | attgaccccc | acgcccagtc | 1140 |
| tctccagecca | ggccctggcc | tcaccaagac | tgcccacgac | agatggggcc | cacctcaac | 1200 |
| caatatcccc | catccctggg | ggggtttctt | cctctggctt | gagccgcatg | gggtgctgtg | 1260 |
| ctgtgatggt | gcctgcccag | agtcaagctg | gctctctggg | atgatgacct | caccactcat | 1320 |
| tggctaaagg | atttggggtc | tctccttctt | ataagggtca | cctctagcac | agaggcctga | 1380 |
| gtcatgggaa | agagtcacac | tcttgaccct | tagtactctg | ccccacctc | tctttactgt | 1440 |
| gggaaaacca | tctcagtaag | acctaagtgt | ccaggagaca | gaaggagaag | aggaagtggg | 1500 |
| tctgggaattg | ggaggagcct | ccaccacccc | ctgactcctc | cttatgaagc | cagctgtcta | 1560 |
| aattagctac | tcaccaagag | tgaggggcag | agacttccag | tactgagtc | tcccaggccc | 1620 |
| ccttgatctg | tacccacccc | ctatctaaca | ccacccttgg | ctccactcc | agctccctgt | 1680 |
| attgatataa | cctgtcaggc | tggcttgggt | aggttttact | ggggcagagg | atagggaatc | 1740 |
| tcttattaaa | actaacatga | aatatgtgtt | gttttcattt | gcaaatttaa | ataaagatac | 1800 |
| ataatgtttg | tatgaaaaaa | aaaaaaaaaa | aaaaa | | | 1835 |

<210> 246

<211> 661

<212> DNA

<213> Homo sapiens

<400> 246

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| gaattcggca | cgaggggaaa | aggatgctga | acgagagcag | aaagcctctt | tcctttgtct | 60 |
| cagccttttc | cagtcctttat | tttaaaactcg | ggttcccttt | ctgtgggtcg | agcaaccttt | 120 |
| actccacctg | cactgctgct | cctgggggct | ccccaggcct | ccctctgctt | ttctacccag | 180 |
| tggctgacgg | gatgcctgtc | ttgcctggac | gcaccactgc | tctcctgtcc | ctcactttgg | 240 |
| cttttgcctg | gccctgctct | ggggttgaag | ctggcccatg | tgtcccccg | agtcattggc | 300 |
| gctcctcctg | ggaggcctct | gtgtgcgtca | cgtcttccac | acctgggggc | agctggcgag | 360 |


```

cccgtgctct gttccctcgc gctgcttggc acagagytgc agcctgggag tctccgtgga 420
cccagactgg ggatttttgc agggggggcg tgggaggagc aggtgctttg cctggcggtc 480
gtgtctgcat ttctggacgc cccagagcac agaagttgcc ggcactttga ggtcttctc 540
ggcatgtgcc agattacatg agtgacggct gggaaatatgt tttctttttt gtaatggagg 600
cgtgtttcac atatatgtaa gctcaccaaa aagtaaaaaa aaaaaaaa aaaaaactcg 660
a 661

```

<210> 247

<211> 1378

<212> DNA

<213> Homo sapiens

<400> 247

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ggtgtcccag gaagtcagcc attactcccc agtggaatgg atccaactcg acaacaagga 180
catccaaata tgggtgggccc aatgcagaga atgactcctc caagaggaat ggtgccctta 240
ggaccacaga actatggagg tgcaatgaga ccccaactga atgcttttagg tggccctgga 300
atgcctggaa tgaacatggg tccagggtgt ggtagacctt ggccaaaccc aacaaatgcc 360
aatccaatac catactcctc agcatctcct gggaattatg taggtcctcc aggaggtgga 420
gggccaccag gaacacccat catgcctagt ccagcagatt caaccaactc tggtgataac 480
atgtatactt taatgaatgc agtacctcct ggacctaaca gacctaat tccaatgggy 540
cctgggtcag atggtcccat ggttggtgta ggaggaatgg agtcacatca catgaatggc 600
tctttaggct caggagatat ggacagtatt tccaagaatt ctccaataa tatgagcctg 660
agtaatcaac cgggcactcc aagggatgat ggcgaaatgg ggggaaat ttaaatcct 720
tttcagagtg agagttactc ccctagcatg acaatgagcg tgtgatccat taccagtct 780
cctcatgaaa accacagtga gtcagccctt cacagaacta ctacggaaga aaattattca 840
tcacagtgtg cagttaaaaca aaggaatctc agtcacacca aaccaacctt tttatttct 900
gctctctccc ctcttttgtg aagaaagcgg gtccaaatgt gattcaaaca actgtacgga 960
gtggcatatt agaattgccc taaactgaac tgcaaaatgt tatgtgtgta tgtatatgtg 1020
tgggaaagag aatgtactgt atatgtgtat gttatacaga catatacaca tacatacatt 1080
gaccacagag acattgtaaa atattatcac atgacatctt aagtagaat aagtagggac 1140
ttttattcca tccttttttt ccggtttaca ttttaattat tacaagttgc tctgcccc 1200
tccctgaact attttgtgct gtgtatatca ctgctttata taagttattt ttaagggtga 1260
actcagatgt tatggttttg taaatgtctg caatcatgga taggaataaa atcgcttatt 1320
tgagagcttt cattaaaaaa aaaaaaaaaa aacttcgagg gggggcccgg taccat 1378

```

<210> 248

<211> 1366

<212> DNA

<213> Homo sapiens

<400> 248

```

ggcacgaggt tttcagcggg attattattt gtgagtctaa cctagcgggt ggtcctggct 60
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ggacctgggc atcgttggca ttgggcttga ccaggcgct gggcgggatg ggctcattct 180
tgctcaggat tttgggctgg tccctggcga tgggctccc cagccgggag cgctggccca 240
ggggccggtt ggggttcacc tcgatgtgga gctgcatgag ccagtgcagc gtctgcagga 300
tgatcatgtc gttggtggag gtgttgggtg ccaccagcca ggtggtgaag ctctggtccc 360
ggtagatgtt ggtgagcttg gccacgttg tctcgtgac gggcacggcc catgtgacgc 420
tggggtaaaa gttgtcattc atgctgatga tgaacttggg gtccctcttg gtggggccca 480
cgatggtgca ggtctctgtg gtgttgccgt accaggggta gttcaccccg tccgagtcgc 540
tgatggcttg gatcttgcct tccctggagg cggggagctc ccagctggac atgcctgct 600
cgccgtactg gttgtagaac tccatgtggc tgcagcctg gatccagcca actaccaag 660
tctccttctt ggggatgggc ggcacgaccc cctgggcccga ggcccgaag tggggtgtcc 720
ggtagcggag caccacgtg gaggactcat cgatgctagt ggggacgggg tcgatggagg 780
ctttcacatc aatcacctg atcccttccc ggaagactct ggctttgcct ccgatgctct 840
gaatacagcc catggcatag aggagcgtc tgatctccag ggaaggccag cagtacaga 900
aaaaaccagg cattgaaagg acagaggctg caggacccag tacagacggc gctgctctcc 960
aatctcaact ctcaagaccg atatccatag gatagaaaac tcaatgagta gactggggtt 1020
gcatatatca ctaccgcggc ctgtttataa ataaggattc tgctgcattt catgagccct 1080

```

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| gggctctctc | ttcttctcct | cgcagtgga | aaaaatcacc | gatattcttt | gggttaaaaa | 1140 |
| aagttttag | tttaataat | aattatgcg | ttctgacatc | cagcccttct | gtgcctcaca | 1200 |
| cgcggggacg | gcagctcgca | gactctccct | gaagtcttcg | gaggaagcag | gcgagcgccg | 1260 |
| gcagactcat | aaataaggaa | ggctctgtcc | ccgcgcggcc | gcgccaccct | cgcggcagaa | 1320 |
| gcttgacttc | ctgccctccg | gccttcgcga | cgcgctcccc | gcacga | | 1366 |

<210> 249

<211> 715

<212> DNA

<213> Homo sapiens

<400> 249

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ggcagagct | ttccctcagt | ccaatcttgc | aattgctatg | tcagtttcag | ttcacaataa | 60 |
| taccagtgc | gacatggctc | cttaagattt | tctccttttc | cctcacgagg | gtcccaattc | 120 |
| taaaattccca | agggctgaca | tgattgacat | ttgccatagc | ctgaggaggg | agcatttcct | 180 |
| tttgtggtct | ttccttggtt | tgttttattg | ggcagtgaat | ggcaagtctg | tctgtgtttc | 240 |
| tttgcttcac | cccaaacc | ttggcaaaaa | tgaaagcctt | ctaatttagc | tgtgtcctcc | 300 |
| tttacttatg | tcaggaagcc | tgagccataa | cctttgatta | aaaaaatttt | ttttgtttt | 360 |
| ttgtttttga | gacagggctc | tgctctgtca | cccaggctga | aatgcagtgg | cacgactgca | 420 |
| gctcattgca | gccttgacct | cactggagtg | tagtggcatg | actgcagctc | actgcagtcc | 480 |
| caagttagctg | gcacttacag | gcaggtgcc | ccatgcctgg | ctaattttta | aattttttgt | 540 |
| agaaacaggg | tcttgctggc | tgggcacggt | ggctcacacc | tgtaatocca | gcactttggg | 600 |
| aggccaaagc | gggcggtatc | cgaggtcagg | agtttgagac | cagcctggcc | aacatggtga | 660 |
| aatcctgttt | ccactaaaa | taccaaaaa | aaaaaaaaa | aaaaaaaaac | tcgta | 715 |

<210> 250

<211> 711

<212> DNA

<213> Homo sapiens

<400> 250

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggcagagcgc | aagaccctgt | tcggaccctg | ccccgattcc | agactcaggt | agatcgctcg | 60 |
| cataccctct | accgtggaca | ccaggcagcc | ctggggctga | tggagagaga | tcagggtatcc | 120 |
| cccagggagt | aggggtacc | ttgaggggat | gatagacctc | ccccactccc | agtgkactc | 180 |
| tggaaatatg | aaggaactag | ggagtggag | agatttcaga | gctggggaga | ggagtctctc | 240 |
| ccttcaaagc | cagcaactgc | ctttggggaa | tgctgggggg | tctctccttt | ctcctgcttg | 300 |
| tgtkargtgg | tacacagtcc | ccccttcacc | tggcgggag | ctgtcccga | cagactcatc | 360 |
| tcagctttcc | cttggggcag | gatcgggggc | agcagctcca | gcagaaacag | caggatctgg | 420 |
| agcaggaagg | cctcgaggcc | acacaggggc | tgctggccgg | cgagtggggc | ccaccctct | 480 |
| ggragctggg | cagcctcttc | caggccttcg | tgaagaggga | gagccaggct | tatgcgtaag | 540 |
| cttcatagtc | tctgctggcc | tggggtggac | ccaggacccc | tggggcctgg | gtgccctgag | 600 |
| tggtggtaaa | gtggagcaat | cccttcacgc | tccttggcca | tgttctgagc | ggccagcttg | 660 |
| gcctttgcct | taataaatgt | gctttatatt | caaaaaaaa | aaaaaaaaac | t | 711 |

<210> 251

<211> 875

<212> DNA

<213> Homo sapiens

<400> 251

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcagagtg | ccagtgtccc | gtgccctcca | gtgtcaaaga | tttggggcac | tgcccgctcg | 60 |
| aatggaaagg | ttggtgctca | gcctctggag | cctcacctgc | agggcgctcc | cagctaacc | 120 |
| ccatccacgc | accacctcca | ggacgagaac | ccttgatgtc | aaaaccaagt | gcccagtgg | 180 |
| ggcggtgaa | ctctcgga | tgctgccacc | tgtgtgaggc | cgggtctgaa | ctcgagggag | 240 |
| tcggagctca | gctgtcgggt | taaagagaca | ctgaggggac | cgggctgccg | ccctcagcct | 300 |
| gcattcctgt | gcgcaatcga | ttccgcaatg | acagcacctt | actccttcct | gcggcaggct | 360 |
| caccctgtcc | tgtgggatgt | tgtgagagga | acatgagcca | gacaaagact | tggctcaggg | 420 |
| ctccgtggaa | caagccagga | tgacggggga | gctgggggag | ccccascct | ggggcagccc | 480 |
| agcaggccgc | tgaacaaaca | cccagaagc | cagcactgtg | gcagggtgct | ggggagatgc | 540 |
| ccctctgagc | cttcctcccc | cctcagacct | gaatgcaccc | cacagttggg | ggctgccct | 600 |
| gcccactccc | ctggtaatgc | ataaaagggg | aggggaaggt | tccctggggc | ttgagctccc | 660 |

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| tctgtggagg | tgaggagggg | agattccgtt | cacatcccag | gaggggcaaa | atgactgatg | 720 |
| tatttttatg | tatctacaca | gagagtgc | tttctctcca | gagatgctgt | ctgggtaaca | 780 |
| aaggaataac | ttaagaaatt | gattgattat | cttaataaac | tgtgcaaacc | caamrrraaa | 840 |
| aaaaaaaaaa | aaaaaaaaada | aaaaaaaaact | cgtag | | | 875 |

<210> 252

<211> 890

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (818)..(819)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (829)..(829)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (859)..(859)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (887)..(887)

<223> n equals a,t,g, or c

<400> 252

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| cttgtaaattg | tttcttttcc | cttaaataca | gataattcat | ttgtattgct | tattttatta | 60 |
| tgagctacaa | caaaaggact | tcaggaacaa | gtaattgtatt | agtatgggtc | aagattgttg | 120 |
| atagggaactg | tctcaaaagg | atggtgggta | ttttaaatat | aaatagctaa | tgggggtggt | 180 |
| aggcctataa | aattaaatgc | cttgataaaa | atccaaaatg | aatgcaaaat | tgttttcact | 240 |
| tgtattgact | ttatgttgta | tgattccaat | ctctgttctg | tttggcactt | gtatttaatt | 300 |
| cttcaccttt | gtaagacatt | tgtatattgt | ggatgtgttc | attcaagcta | tttaatatct | 360 |
| ggcactgtta | atacacagta | ctttattgta | cagactgttt | tactgtttta | attgtagttc | 420 |
| tgtgtacttt | ttttggatgg | ggctggcatg | tttcttttgt | ttcctggcaa | tacgacgtgg | 480 |
| gaatttcaat | gcgttttggt | gtagatgcta | acgtgtcaga | atcctttaca | ttcaactttt | 540 |
| ctaagaaaag | cattttcagt | cttgtagtgt | gtgcttacag | taactaattt | tgttgaaaat | 600 |
| ggtttcaagt | tattcaaatt | tgtacaggac | tgtaaagatt | tgttgacagc | aaaatgttga | 660 |
| agaaaaaagc | ttatagaata | aaagctataa | agtatatatt | aggatctgca | aacaatgaag | 720 |
| aattatgtaa | tatattgtac | aaatgtaagc | aaaggctctg | aaataaaatg | ccatagtttg | 780 |
| tgaaaaaaaa | aaaaaaaaaa | actcgagggg | gggcccgnna | cccaatcgnc | caaaagtga | 840 |
| tcgtattaca | attcactgng | ccgtcgttta | caacgtcgtg | actgggnaaa | | 890 |

<210> 253

<211> 1050

<212> DNA

<213> Homo sapiens

<400> 253

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ggcacgagct | tttcagcatt | tgatgggtgc | tgaccactcc | cactttcaca | gaaccctcat | 60 |
| caaacagcct | tctatgatcc | caaatgcaac | tttctatcac | atttttatgc | tcttcttctg | 120 |
| cctactcatg | aaaatgttgg | ggccatccag | gcttccattt | ttagccctca | ctttgtgcag | 180 |
| gtttatactt | tattttcagt | tttgttatct | gatctctgac | tccagcccag | accattcctg | 240 |
| actccacatc | cacatattca | tctggcttgc | tgaataactt | ctcttggatg | tacatgtgtg | 300 |
| ccttagactc | attatgtgca | gacatgaagt | catctttttt | ctctccagac | ctgcttttcc | 360 |
| tctcgtattc | ttctttttgg | tgaatggtag | aattattcag | atggaacgtc | caagtcaaaa | 420 |
| gtcgttctag | aatcctccct | cactcctaatt | gccacatcca | attagtgacc | aaatcctatc | 480 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| gattcggcct | tctaaatata | gtcaaaacat | ttcattcaat | tcagcgtcac | tgtcattgct | 540 |
| ttaatgtaga | ccttctctat | tttaccatga | tcaagcagag | gccctgtatc | tatattcttc | 600 |
| tgccctccag | tcttgatc | ctactccgca | gttaatcccc | tgagtgtat | cctagtgtac | 660 |
| cttctaacag | tacagatttg | gtcatggatt | ctccagcttg | aaataactca | tgtcttttgt | 720 |
| gggaacatgg | atggagatgg | aggctattat | acttagcaaa | caaagtcatg | aacgaaaacc | 780 |
| aaataccaca | tgttcttact | tataagtggg | agctaaatgc | tgacaactca | tgaacacaaa | 840 |
| caaatagaaca | gcaaacactg | gggtctactt | gagggtggag | tttgggagga | gggagagaag | 900 |
| cagaaaaggt | aactattggg | tactgaactt | aatacctggg | tgattaaata | atctgttcaa | 960 |
| caggccccc | tgatatgagt | ttacctacgt | aacaaacctt | cacatgtatc | cccaaaccta | 1020 |
| aaataaaagt | taaaaaaaaa | aaaaaaaaaa | | | | 1050 |

<210> 254

<211> 1161

<212> DNA

<213> Homo sapiens

<400> 254

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------|
| ggggaaacgg | agctctgggt | gtgatatttc | ctctgcattt | tctgtcggg | gtggtgaaat | 60 |
| aactggtttg | aaccagtc | actggactcg | aaagctcatg | ctcagaagcc | ccagggctcc | 120 |
| ctctaacttt | cttggttgct | gcaactcaga | gagcgctgga | atggaccag | ggcatgtctc | 180 |
| tcctctcagc | ggttcagggt | ttcattcttc | tatctccatc | cttctattta | attctgtact | 240 |
| tactaagacc | tgggggtaca | gggaggggct | tggagcctat | ttgccagct | gctgaatggg | 300 |
| gaggttggag | agatggatac | ttatggctcc | agtaccagga | gccaactgtt | tcccttgaca | 360 |
| actggggaaa | ctgaggccca | cagagccaag | gccacttgcc | cgtggttacc | taaagatgtt | 420 |
| aacgagaaat | ccgggtctgg | aactcagatc | cctttgtatc | ctgtttcggg | gttgggtgtag | 480 |
| tttgttgctt | tcctaagat | gagcccagat | agggaaactg | aagtgcctgg | gstcctgggt | 540 |
| gggtcttctg | cggggagaga | atggcgattc | aactcccgtg | tactgttgaa | cttgacacaa | 600 |
| acacgctcac | atcccaggct | gcatacgtgt | tttgcttttag | aaatgacatg | aagccttttg | 660 |
| actattttta | agagaaaggc | aatggctgtg | atatttcccc | tgcacctccc | tctcggggcc | 720 |
| acttggttaa | atgtcaggaa | agggagagta | tttccgtg | aggaacattc | agagcttgct | 780 |
| gggagctgaa | gttttgtttt | ccattaagta | ggatttcggg | gagtcatttt | ccctctgcct | 840 |
| cctctgtttc | cctggaarct | tgcgcttgac | agttgcaggg | aggagggggt | tgagaatgag | 900 |
| cagccgagat | gccacggtat | cgcgtgccc | ctctaggagt | ggcgggggtg | ctatttttag | 960 |
| ccatcctgat | tcagtagagg | catttcagcg | tttgttcaat | atttaattat | ccatctgaaa | 1020 |
| ttggcccatg | tggccttcag | tttggaagca | gctctctgtg | ctgtgatttc | ccagttgcat | 1080 |
| aaataaggaa | gtcaaggga | tctcaatagc | cctccaaata | ataataacga | aaaaaaaaaa | 1140 |
| aaaaaaactc | gacggcacgt | a | | | | 1161 |

<210> 255

<211> 1002

<212> DNA

<213> Homo sapiens

<400> 255

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|------|
| ggcacgagcc | cagcggaagc | caagccacca | ggccccccag | cgtccacgcg | gagcatgaac | 60 |
| attgaggatg | gcgcgtgccc | gcggctcccc | gtgccccccg | ctgccgccc | gtaggatgtc | 120 |
| ctggccccac | ggggcattgc | tcttctctctg | gctcttctcc | ccacccttg | gggccggtgg | 180 |
| aggtggagtg | gcggtgacgt | ctgccgccgg | agggggctcc | ccgccggcca | cctcctgccc | 240 |
| cgtggcctgc | tcctgcagca | accaggccag | ccgggtgatc | tgcacacgga | gagacctggc | 300 |
| cgagggtccca | gccagcatcc | cggtcaacac | gcggtacctg | aacctgcaag | agaacggcat | 360 |
| ccagggtgatc | cggacggaca | cgttcaagca | cctgcggcac | ctggagattc | tgcagctgag | 420 |
| caagaacctg | gtgcgcaaga | tcgaggtggg | cgcttcaac | gggctgccc | gcctcaacac | 480 |
| gctggagctt | tttgacaacc | ggctgaccac | gggtcccacg | caggccttcg | agtacctgtc | 540 |
| caagctgcgg | gagctctggc | tgcggaacaa | ccccatcgag | agcatcccc | cctacgcctt | 600 |
| caaccgcgtg | ccctcgctgc | ggcgctgga | cctgggagag | ctcaagcggc | tgggaatacat | 660 |
| ctcggaggcg | gccttcgagg | ggctggtcaa | cctgcgctac | ctcaacctgg | gcatgtgcaa | 720 |
| cctcaaggac | atcccccaac | tgacggccct | gggtgcgctg | gaggagctgg | agctgtcggg | 780 |
| caaccggctg | gacctgatcc | gcccgggctc | cttccagggt | ctcaccagcc | tgcgcaagct | 840 |
| gtggctcatg | cacgccaggg | tagccaccat | cgagcgcaac | gccttcgacg | acctcaagtc | 900 |
| gctggaggag | ctcaacctgt | cccacaacaa | cctgatgtcg | ctgccccacg | acctcttcac | 960 |
| gcccctgcac | cgctcagagg | ggggggcccg | tacccaattc | gc | | 1002 |

<210> 256
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(4)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<400> 256
 tanntgnatc cccccgggcn tgccaggaat tgggcacgag ttacaactgg tggaccacac 60
 accaggcact aatcacctgg tgaggatttg gcatatccac caaaaaatgc atccgattta 120
 accaacatct ccaccagcgc tacggactcc tcccaattct gacatctctt gcagacaata 180
 ctatgctctc tacacactgt ttagaaatgg aaaggtgatc tgcactgtat cttgggtttg 240
 ttggctatgc ttcctttgat gacatatatt atacagtata tatatacata tattttwww 300
 gttagagttc tagccatttt atttctccgc agggtccttt ctcagacatt actgcatgct 360
 gtatatggcg ttagctgtgt gttgatcttc taaaagatga tagagtttac tggtaattgt 420
 gtaatcagct cctgcctttt tattttcttg ggttatttac atgtcagaga catttataaa 480
 aagtgaagg ataaaaaaaa aaaaaaaaaa ctcca 515

<210> 257
 <211> 1113
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (349)..(349)
 <223> n equals a,t,g, or c

<400> 257
 gttggtgttg agcacagctt taggcttaga ttcttcatca actaggagaa gctgtgcttc 60
 aatacagtta ttcgtttgca tgggttcctaa tgtgcttcac tcaatttagc agaatttttt 120
 ttttaacctc ttccttgacg cttagctgctt gtgcaaata catcttgagg gcctactctt 180
 cttcacttgc tgacagatgt gtaggtgaga aaagtctcat agtcattgtt cctgaaagaa 240
 gcttccagac ccacttctag ggccagtgac atatgcagga aatcagctgc ttctgggcca 300
 ggacagagct ggtctttttt ttagtggggg atggcgggca gtggggcang ggacattcaa 360
 aattttatctt ccaacagaca gatagcatca gcaggtacaa ctacaagggt atctacatag 420
 atcatacatt cacaaggcat tattagttca acagtggagaa agccactcgt ggggttttctg 480
 taacaatatc ccacttcata gtgtaaacag gtactatttt gtctacttac aattccggaa 540
 ggaagggcac accttgacag gggaagaaa aggggaatcc taaagtaagg tgcaacaatt 600
 aagagacaac actttggcta acaatcttgg atccacattt cagtcagggc cttccacata 660
 gagggggaaag acttttctct cagaagttag aatctttctt cctcctttct tgttaaactg 720
 agagcagtggt tttgtttgct caatattaca tgtacaaaag gagattagaa gaaaatgcat 780
 cacaaaacca tcttgaacgt tcagctcttc ctgccaatac atcacaaactc ttaggtttta 840
 gacggggcct gggaatacgt aagtgttttt tctttttttt ttttttaagt gaaagcaagt 900
 ttattacgaa agcaaaggga taaaagaatg gctgtcccat aggcagagag cagcccagta 960
 atcttataaat aggaaaatag acactatggc tacaaaaaat aaaaaataaa tgaggtagat 1020
 aaaattttca caccaggac ttgcctgttc caacttcata gtcttcatga aatattcatc 1080

aagaagacaa aaaaaaaaaa aaaaaaacctc gta

1113

<210> 258

<211> 1668

<212> DNA

<213> Homo sapiens

<400> 258

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|------|
| aatttcgaac | accataaaa | ttgtaaagaa | ttgtacagta | cattttaaca | tattkgcttg | 60 |
| ttacaaycta | tacatttwaw | gttttttaac | cacttcaaag | taagtttcag | acaccaacac | 120 |
| atTTTTtaaa | tgatccctac | cattttttta | atgatcccta | ccaaaatgga | aggctggat | 180 |
| cccaagggtt | tgttccattt | ctcaattcta | gtctgtgaaa | ttgargtctg | atgaccactc | 240 |
| ttaagrsggc | tgttcattag | ggkgcgggct | gggcattatg | agtgtgtttt | tcagtagkca | 300 |
| gtggaaggag | gggcttggtg | tgagcagtg | atgagaaaaa | cggcttggtg | ttgcttcttt | 360 |
| ttccagctct | gtggccttgg | tcaggttacg | tctcttcagt | atcgtaactg | taatgtggag | 420 |
| ataaagcctt | cattagttag | gggcacacac | cgcagtattc | cttaagtcac | cttgatgaca | 480 |
| agtgaatgca | aggcagctgg | tacctttcag | gtagtagttg | aattcaggta | gtattgttca | 540 |
| gttttttttt | ttcccttcat | gttctaagac | cagctgagag | gcaaaagtgt | accactgagc | 600 |
| tctagtgtgt | gttacctaaa | aagsccttgt | tttaaatttc | tgtgatacct | aagaatttca | 660 |
| aatctgggtt | gtcatggatt | ctttattctt | ttttctccc | ttaaaaagtt | acatttttaga | 720 |
| tgaatcccc | tttyttaaaa | tgggcaaaagc | aataattcta | catcatttct | ccccttccct | 780 |
| ttccatttgt | tagactaaga | tatgttagag | agggaaagg | tcgttggttt | agtaataact | 840 |
| attgctgttg | acatgttaat | actattgctg | tgacatgtt | tactgatggg | ctgtgttcca | 900 |
| taattttgtt | ttaggtcttt | tgtttgaaac | agtttactgt | ttttatcagt | tttggctcct | 960 |
| aatttttctt | aacctacagt | ttttctctga | gtacatatgg | tttcatttgt | tgatctactt | 1020 |
| tctatctatc | tgaatatgaa | cttctaggat | catgtttatt | ctagtagatg | atgacttaaa | 1080 |
| gcctgcagta | taggagggac | aacgtcaact | actgcagtgt | caataacaag | cttgaaggga | 1140 |
| agctaaatgt | ttgttataaa | tttaagacag | tatttttaag | ccgtttgcat | ttttcttaaga | 1200 |
| atTTTctata | aagctaattc | tgktattttt | tgtctctaaa | ttagggaact | gtccagggtt | 1260 |
| attgctgcgg | ggagactaca | ctgcaaaata | gataaagtga | atgaaatagt | agaaaccaac | 1320 |
| aggtagctct | attttctcaga | ataagggggc | attcctaaat | tttaaaagta | ggkcaactat | 1380 |
| tgkcatggaa | taagtgtact | ggtaaataat | tcattttttt | ttgaatttat | ttatagacct | 1440 |
| gatagcaaga | actggcagta | ccaagaaact | atcaagaaag | gagatctgct | actaaacaga | 1500 |
| gttcaaaaac | tttccagagt | aattaatatg | taaagccatg | taactaacia | aggatttgct | 1560 |
| ttagagataa | ttatttggaa | tttttatagc | ttacttcaca | atgtgccag | gtcagctgta | 1620 |
| taaaataaat | actgcattgt | tgttaaaaaa | aaaaaaaaaa | aactcgta | | 1668 |

<210> 259

<211> 575

<212> DNA

<213> Homo sapiens

<400> 259

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcagcagtg | caggaattcg | tgtgccgat | ttgttagct | gagcccaccg | agaggcgcct | 60 |
| gcaggatgaa | agctctctgt | ctcctcctcc | tcctgtcct | ggggctgttg | gtgtctagca | 120 |
| agaccctgtg | ctccatggaa | gaagccatca | atgagaggat | ccaggaggtc | gccggctccc | 180 |
| taatatttag | ggcaataagc | agcattggcc | tgagagtcca | gagcgtcacc | tccagggggg | 240 |
| acctggctac | ttgccccga | ggcttcgcgg | tcaccggctg | cacttgtggc | tccgctgtg | 300 |
| gctcgtggga | tgtgcgcgcc | gagaccacat | gtcactgcca | gtgcgcgggc | atggactgga | 360 |
| ccggagcgcg | ctgctgtcgt | gtgcagccct | gaggtcgcgc | gcagcgcgtg | cacagcgcgg | 420 |
| gcggaggcgg | ctccaggtcc | ggaggggttg | cgggggagct | ggaaataaac | ctggagatga | 480 |
| tgatgatgat | gatgatggaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 540 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaa | | | 575 |

<210> 260

<211> 1532

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1412)..(1412)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1433)..(1433)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1446)..(1446)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1505)..(1505)
 <223> n equals a,t,g, or c

<400> 260
 gctggagcgg ttccattgcc tacattccgc attggaaaat agaagcaggc acaatgaagg 60
 gaaaaggccg aggcacagc gtgtgaagac cgaaagacg atcccgagta cagttgtgaa 120
 cagcattgct gctaggctcc tcctgcagat catctgaaat gaacctctct tattgatttt 180
 tattggccta gagccaggag tactgcattc agttgacttt cagggtaaaa agaaaacagt 240
 cctgggtgtt gtcatcataa acatatggac cagtgtgatg gtgaaatgag atgaggctcc 300
 gcaatggaac tgtagccact gcttttagcat ttatcacttc cttccttact ttgtcttggt 360
 atactacatg gcaaaatggg aaaggtaagg aaaatgactc ggaaaatgtg catgaaatgt 420
 actagggttt ttgcttggtt aagggtgccta aatgcttagg tcaaataccc tggcaatctg 480
 catgttacat gctatctgct ggcagtttct ttctgatata aaaatgaaac agtattcttg 540
 gacagaggac acagaatttc taattccagt ggggcttggt ttgctttcag tttcttataa 600
 ttgtacttgg agaacagat actgatcagt gttttatatt ctaaaagaca gccaagttga 660
 ataataaaga ctttcgtttt ggcattttgt tctttttact aaacataatt aagtgtttaa 720
 taagcttctt tgtaccgagt gttgcataaa acacttaaaa ggacacaatt agtgccttcg 780
 tgagatttac atgctaatta tgctaaygat tgggtgctat gtagttaatg atttaaactg 840
 catgcattga cagattactc cttaggcaaa agtatttaag aagggtataag tagaaattct 900
 gattggaata ttaaaacatt ttttaaaaat taattatgkt tagactgktg aaccgkgtta 960
 tataatttta ggataawgga ttwatttgct tttttttttt ttaagagaaa ctacttgaag 1020
 taaattccta cccatacttc ttacttgtct cctttccttt gattaatcta aggaatgktg 1080
 atgatgagaa gaaagatgga aatgttgagg tgggtgcata tttgggttgt tagaatatct 1140
 gtcacacac ttggctwttt aagctgctgt tgctgatgtt gttttattga ctcatgaaga 1200
 caactgaaaa gattgctttg taaccttatt tttttctgat gtgtgtttac atccatgtct 1260
 atatatatat attgcatatg tatatatctg tatgtgcatg tatatgttaa aaatctgata 1320
 taagtgaata catgctctgt gctttgaaac aaaaaaaaaa aaaaaaaact cgaggggggg 1380
 cccggtaccc aattcgccct atagtgagtc gnattacaat tcaactggccg cgntttacaa 1440
 cgtcngnact gggaaaaccc tggcgttacc caacttaatc gccttgacg acatccccct 1500
 ttcgncagct ggcgtaatag cgaagaggcc cg 1532

<210> 261
 <211> 1192
 <212> DNA
 <213> Homo sapiens

<400> 261
 ggacagagaa gaagtgtgtt ggaaaccgtc aggccatgaa ccaggctgac cctcgggtca 60
 gagcagtgtg cttgtggact ctcacatctg cagccatgag cagagggcag aactgcacgg 120
 atctactcgc actgggaatc cctccataaa cccaggcctg gggactgtgg gtcctcttag 180
 gggctgtgac gctgctatct ctcatctcgc tggtgcaca cttgtcccag tggaccaggg 240
 gccggagcag gagccatccg gggcagggac gctctggaga gtctgtggaa gaggtcccgc 300
 tgtatgggaa cctgcattat ctacagacag gacggctgtc tcaagaccca gagccagacc 360
 agcaggatcc aactcttggg ggccctgcca gggctgcaga ggaggtgatg tgctatacca 420
 gcctgcagct gcggcctcct cagggtcgga tccccggctc tggaaacccc gtcaagtact 480
 cggaggtggt gctggactct gagccaaagt cccaggcctc gggccccgag ccggagctct 540

```

atgcctcagt atgtgcccag acccgagagg cccgggcctc cttcccggat caggcctatg      600
ccaacagcca gcctgcagcc agctgagatg gagggcctgg cacagcgggg cgtgcactgc      660
cccagcccc cgtagcaggg gcatgactgt ttccaacca gcacccaaag acgggcgcca      720
ttgccaagtc acaggatgtg atctaccccg gacttccctat ctgagcttca agggagacat      780
ctcagggcaa agctttcgtg atggaggagg caaagacagt agccccctcc ttatttcttt      840
tttctatctg ttctcttag ccccaaaact cccagggttct cacttccttc ttctggagtt      900
taaccagatc ctccccaccc cgcctccctc atagtctacc cccacgcctc agtgtctcct      960
caggcacagg aagtgggcgg tgggggaggg gtaagggcct gacagtgggt gggtaggtat     1020
attcctcagg agtccacaga ctggagtggg cctggaactt agagacggga gggacccgag     1080
cctggctttt gacctaaaga ccctagcagg agaatacagt ctccatcctg ctgtctctgt     1140
cctgtcccca agttttcaaa taaaactttc caaaaagtga aaaaaaaaaa aa              1192

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```

<210> 262
<211> 1559
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1445)..(1445)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1551)..(1551)
<223> n equals a,t,g, or c

```

```

<400> 262
atccagcagt ggggagacag cgtgctgggc aggcgctgcc gagaccttct cctgcagctc      60
tacctacagc ggccggagct gcgggtgcc gtgcctgagg tcctactgca cagcgaaggg      120
gctgccagca gcagcgtctg caagctggac ggactcatcc accgcttcat cagctcctt      180
gcggacacca gcgactcccg ggcgttggag aaccgagggg cggatgccag catggcctgc      240
cggaagctgg cgggtggcgca cccgctgctg ctgctcaggc acctgcccac gatcgcgcg      300
ctcctgcacg gccgcacca cctcaacttc caggagtctc ggcagcagaa ccacctgagc      360
tgcttcctgc acgtgctggg cctgctggag ctgctgcagc cgcacgtgtt ccgcagcgag      420
caccaggggg cgctgtggga ctgccttctg tccttcaccc gcctgctgct gaattacagg      480
aagtcctccc gccatctggc tgccttcac aacaagtttg tgcagttcat ccataagtac      540
attacctaca atgccccagc agccatctcc ttctgcaga agcacgccga cccgctccac      600
gacctgtcct tcgacaacag tgacctggtg atgctgaaat cctccttgc agggctcagc      660
ctgcccagca gggacgacag gaccgaccga ggcctggacg aagagggcga ggaggagagc      720
tcagccggct ccttgcccct ggtcagcgct tccctgttca cccctctgac cgcggccgag      780
atggccccct acatgaaacg gctttcccgg ggccaaacgg tggaggatct gctggagggt      840
ctgagtgaca tagacgagat gtcccggcgg agaccgaga tcctgagctt cttctcgacc      900
aacctgcagc ggctgatgag ctcgcccgag gagtgttgcc gcaacctcgc cttcagcctg      960
gccctgcgct ccatgcagaa cagccccagc attgcagccg ctttcttgc caggttcag      1020
tactgcctgg gcagccagga ctttgagggt gtgcagacgg ccctccggaa cctgcctgag      1080
tacgctctcc tgtccaaga gcacggcgct gtgctgctcc accgggcctt cctggtgggc      1140
atgtacggcc agatggacct cagcgcgcag atctccgagg ccctgaggat cctgcatatg      1200
gaggccgtga tgtgagcctg tggcagccga cccccctca agccccggcc cgtcccgtcc      1260
ccggggatcc tcgaggcaaa gccaggaag cgtgggcgtt gctggtctgt ccgaggaggt      1320
gagggcgccg agccctgagg ccaggcaggc ccaggagcaa tactccgagc cctgggggtg      1380
ctccgggccc gccgctggca tcaggggccc tccagcaagc cctcattcac cttctgggcc      1440
acagncctgc gcggagcggc ggatcccccc gggcatggcc tgggctgggt ttgaatgaaa      1500
cgacctgaac tgtcaaaaaa aaaaaaaaaa aaaccgrgg gggggcccg nacccaatt      1559

```

```

<210> 263
<211> 1021
<212> DNA
<213> Homo sapiens

```

```

<400> 263

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gtaattcctt aaacatacca tctgtcacag ttaatctaga tttgtaaata ggtagtaatt      60
tatagaatth ttaaagcgta aaatccggta atattaaaag ataggtaaac ctaggcctgg      120
aaagctgtta tttggctaaa attgcacagg aggccatgaa cagaggcaag tgccccagag      180
actccacttt cattcctaac tgttctcaaa ttaatgctca tgattgagta ttctcagtgc      240
aactcgtaga gtttgataag taaaagttac atgccctgt tttcctagca tgatattcac      300
tgttatcaaa gacaagaggc agaccattca ttcatctca aaacactgaa tgccattctg      360
tgcctagtgc tatacaaggc atgggagatt cagtgtgaat aagtctttgc tctccaccta      420
acaagggaca gttttaatta tagattgtct tcctattaag tatgagtttt agtaggcatt      480
aaaaatcgta attagtttga taatatgaga cccaacccta acttgccaga agagtaatca      540
gttcatgaac cattgatatt tcctgtatat ttcatgaatg tgacttcagt cattctagtg      600
ttaatactgt ggaatgtcat tgggtgtagca acgtgggttc accaaaacac ctttttatac      660
aaaagacaga tgygtgaatt aaagagatta aaggatagag tattctgttt ctttgtttg      720
atttggcttt taggtattaa aataaggccc agatcactaa aaattagtaa cagagggaga      780
cctctaatag atttaaagtc agttaattct ctctgaaatt tgatgttttc ttctataaag      840
aataactcta aaataggcat cttcccagga ctttccattc tcaggaaaag acctagttac      900
gtataaaaaa taacttctac tgctttatgt agtcatatag gtctgcctaa aataagaatt      960
tgtatttaat aaataccaaa attttcaaat ggtaaaaaaa aaaaaaaaaa aaaggggggg      1020
c                                                                1021

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<210> 264

<211> 1024

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (14)..(14)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (32)..(32)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (713)..(713)

<223> n equals a,t,g, or c

<400> 264

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gtggntcccc cggnrtggcca ggattcggca cngggcgctg gccgccttcc agctgctcaa      60
cctgactggg caacgtgggg ctcttcctgc gctcggatcc cagcatccgt ggcgtgatgc      120
tggccggccg cggctctgggc cagggtctgg cttactgcta ccaatgccaa agccagggtgc      180
cgccacgcag cggacactgc tctgcctgcc gcgtctgcat cctgcgtcgg gaccaccact      240
gccgmetgct gggccgctgc gtgggcttcg gcaactaccg gcccttcctg tgcctgctgc      300
ttcatgccgc cggcgtcctg ctccacgtct ctgtgctgct gggccctgca ctgtcggccc      360
tgctgcgagc ccacacgccc ctccacatgg ctgccctcct cctgcttccc tggtcatgt      420
tgctcacagg cagagtgtct ctggcacagt ttgccttggc cttcgtgacg gacacgtgcg      480
tggcgggtgc cgtgctgtgc ggggctkggc tgctcttcca tgggatgctg ctgctgcggg      540
gccagaccac atgggagtg gctcggggcc agcactccta tgacctgggt ccctgccaca      600
acctgcaggc agccctgggg ccccgtggg ccctcgtctg gctctggccc ttcttgccct      660
ccccattgcc tgggatggg atcaccttcc agaccacagc agatgtggga canacagcct      720
cctgactcca ggaagagcca gagctgtgca gggaggaagg ggtgagaggg gggccccccac      780
acctagactc agtaaggaag tcgggttggc ccttaacatc tgcattggac aactccacc      840
cttccttggc cttgcccctg cccgcctaca ctctacgtg tccagggtt gggccgtgac      900
ttaggcagag gagtgcagag gagggtctgg caggggctgc tcaggccgcc tagctgcccc      960

```

```

tttgccaggt taataaaagca ctgacttggt aaaaaaaaaa aaaaaaaaaa aaagggcggc 1020
cgct 1024

<210> 265
<211> 621
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (488)..(488)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (536)..(536)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (539)..(539)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (548)..(548)
<223> n equals a,t,g, or c

<400> 265
acagagtctc gctctgttgt ccagcctggg caacagagaa aacaaaaagg aaaacaaatg 60
atgaagggtct gcagaaactg aaaccagac atgtgtctgc cccctctatg tgggcatggt 120
tttgccagtg cttctaagtg caggagaaca tgtcacctga ggctagtgtt gcattcaggt 180
ccctggcttc gtttcttgtt ggtatgcctc cccagatcgt ccttcctgta tccatgtgac 240
cagactgtat ttgttgggac tgtcgcagat cttggcttct tacagttctt cctgtccaaa 300
ctccatcctg tccctcagga acggggggaa aattctccga atgttttggg ttttttggct 360
gcttggaatt tacttctgcc acctgctggt catcactgtc ctactaagt ggattctggc 420
tcccccgta ctcattggct aaactaccac tcctcagtcg ctatattaaa gcttatattt 480
tgctgganta ctgctaaata caaaagaaag tccaatatgt ttccattctg tagggnaana 540
gggatgcngg cttaaaattc tgagcaaggg ttttttggca gtgcagtgtt ggcactatgg 600
aaaacccttg gtcccccgga a 621

<210> 266
<211> 884
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (307)..(307)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (356)..(356)
<223> n equals a,t,g, or c

<400> 266
tcgaccacag cgtccgccgg atggttgcca cccctcctgc tgtaggatgg aagcagccat 60
ggagtgggag ggaggcgcaa taagacacc ctcacagag ctgggcatca tgggaagctg 120
gttctacctc ttctggctc ctttgtttaa aggctggct gggagcctc cttttgggtg 180
tctttctctt ctccaaccaa cagaaaagac tgctcttcaa agtggagggt cttcatgaaa 240

```

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| cacagctgcc | aggagcccag | gcacaggctg | ggggcctgga | aaaaggaggg | cacacaggag | 300 |
| gagggangga | gctggtaggg | gagatgctgg | gctttaccta | agtctcgaaa | caaggnggca | 360 |
| gaataggcag | aggcctctcc | gttccaggcc | catttttgac | aratggcggg | acggaaatgc | 420 |
| aatagaccag | cctgcaaraa | aracatgtgt | tttgatgaca | ggcagtgtgg | ccgggtggaa | 480 |
| caagcacagg | ccttggaatc | ccaatggact | gaatcagaac | cctaggcctg | ccatctgtca | 540 |
| gccgggtgac | ctgggtcaat | tttagcctct | aaaagcctca | gtctccttat | ctgcaaaatg | 600 |
| aggcttggtga | tacctgtttt | gaagggttgc | tgagaaaatt | aaagataagg | gtatccaaaa | 660 |
| tagtctacgg | ccataccacc | ctgaacgtgc | ctaactctcg | aagctaagca | gggtcaggcc | 720 |
| tggttagtac | ctggatgggg | agagtatgga | aaacatacct | gcccgcagtt | ggagttggac | 780 |
| tctgtcttaa | cagtagcgtg | gcacacagaa | ggcactcagt | aaatacttgt | tgaataaatg | 840 |
| aagtagcgat | ttggtgtgaa | aaaaaaaaaa | aaaaaaaaaa | aaac | | 884 |

<210> 267

<211> 1231

<212> DNA

<213> Homo sapiens

<400> 267

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|------|
| ggcacgagtg | aatgtcgagg | agttccagga | tctctggcct | cagttgtcct | tggttattga | 60 |
| tgggggacaa | attggggatg | gccagagccc | cgagtgtcgc | cttgggtcaa | ctgtggttga | 120 |
| tttgtctgtg | cccggaaagt | ttggcatcat | tcgtccagge | tgtgccctgg | aaagtactac | 180 |
| agccatcctc | caacagaagt | acggactgct | cccctcacat | gcgtcctacc | tgtgaaactc | 240 |
| tgggaagcag | gaaggcccaa | gacctggtgc | tggatactat | gtgtctgtcc | actgacgact | 300 |
| gtcaaggcct | catttgcaga | ggccaccgga | gctagggcac | tagcctgact | tttaaggcag | 360 |
| tgtgtctttc | tgagcactgt | agaccaagcc | cttggagctg | ctgggttagc | cttgccactg | 420 |
| gggaaaggat | gtattttatt | gtattttcat | atatcagcca | aaagctgaat | ggaaaagtta | 480 |
| agaacattcc | taggtggcct | tattctaata | agtttcttct | gtctgttttg | tttttcaatt | 540 |
| gaaaagtaat | taaataacag | attagaatct | agtgaagacc | tcctctctgg | tgggtggtgg | 600 |
| catttaaggt | caaaccagcc | agaagtgtcg | gtgctgttta | aaaagtctca | ggtggctgcg | 660 |
| tgtggtggct | catgcctgta | atcccaacat | tctggggaggc | ccaggcgggga | gaactgcttg | 720 |
| agccccagga | gttcagaatc | agcctgggca | acatagcaat | actccgtctc | ataaaaaatta | 780 |
| ataaataaaa | agtctcaggt | gaccaaaggc | tcctgaagct | agaaccaggt | ttggataaag | 840 |
| attgaaaggat | cacagggcac | tcttccctct | gagccattgg | gcctagtggg | gtcatgtatt | 900 |
| gtaattgtct | gcagggagag | cagtcttttt | ggtgtaatat | tgggatgtct | gcttagttgg | 960 |
| caggggttca | gtccaaatgg | aagaatattg | ggaaataaac | ctccactatc | ctttatagcc | 1020 |
| agggactttt | ttcctattta | ttcataaaat | aaattatagt | taattatacc | cataaacact | 1080 |
| ttattttaa | ccagtgttct | ccgcagcctt | ttgtctattt | atatgtgtac | caagtgttaa | 1140 |
| acataattat | tattgggcat | ttgaactttg | tttttcttta | aagaaatgct | gctatttaaac | 1200 |
| atatttgtaa | atggaaaaaa | aaaaaaaaaa | a | | | 1231 |

<210> 268

<211> 1223

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1204)..(1204)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1206)..(1206)

<223> n equals a,t,g, or c

<400> 268

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gcttagctcg | aaattaaccc | tcactaaagg | gaacaaaagc | tggagctcca | ccgcggtggc | 60 |
| ggccgctcta | gaactagtg | atccccggg | ctgywkaat | tcggcacgag | ctgctgtctg | 120 |
| tgcttcggga | tcctgccctc | cagaagtcct | ccaaggcttg | gtacttgctg | cgtgtccagg | 180 |
| tcctgcagct | ggtggcagct | taccttagcc | tcccgtaaaa | caacctctca | cactccctgt | 240 |
| gggagcagct | ctgtgccccaa | ggctggcaga | cacctgagat | agctctcata | gactcccata | 300 |

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| agctcctccg | aagcatcatc | ctcctgctga | tgggcagtg | cattctctca | actcagaaag | 360 |
| cagctgtgga | gacatcggtt | ttggactatg | gtgaaaatct | ggtacaaaaa | tggcaggttc | 420 |
| tttcagaggt | gctgagctgc | tcagagaagc | tggcttgcca | cctgggccgc | ctgggtagtg | 480 |
| tgaagtgaagc | caaggccttt | tgcttgagg | ccctaaaact | tacaacaaag | ctgcagatac | 540 |
| cacgccagtg | tgccctgttc | ctgggtgctga | agggcgagct | ggagctggcc | cgcaatgaca | 600 |
| ttgatctctg | tcagtcggac | ctgcagcagg | ttctgttctt | gcttgagtct | tgacacagagt | 660 |
| ttggtggggt | gactcagcac | ctggactctg | tgaagaaggt | ccacctgcag | aaggggaagc | 720 |
| agcaggccca | ggtccccgtg | cctccacagc | tcccagagga | ggagctcttc | ctaagaggcc | 780 |
| ctgctctaga | gctgggtgcca | ctgtggccaa | ggagcctggc | cccatagcac | cttctacaaa | 840 |
| ctcctcccca | gtcttgaaaa | ccaagcccca | gcccataccc | aacttcctgt | cccatccacc | 900 |
| cacctgtgac | tgtctgctct | gcgccagccc | tgctctcaca | gcagtctgtc | tgcgctgggt | 960 |
| attggctcacg | gcaggggtga | ggctggccat | gtgcccacaa | gccaggggtc | tggatctgct | 1020 |
| gcaggtcgtg | ctgaagggtc | gtcctgaagc | cgctgagcgc | ctcaccacaa | ctctccaagc | 1080 |
| ttccctgaat | cataaaacac | cccctcctt | ggttccaagc | ctcttgatg | agatttggtc | 1140 |
| aagcatacac | actgttgca | tggagggcct | gaaccagcca | tcaaacgaga | gcctgcagaa | 1200 |
| ggtncncagt | aaggctgaag | ttt | | | | 1223 |

<210> 269

<211> 1494

<212> DNA

<213> Homo sapiens

<400> 269

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|------|
| gtcgaccac | gcgtccggcg | gcggcagggc | cgggcgaggg | ccacggggag | aggagacgca | 60 |
| gccccgcggg | tggcacgctc | ggccggggccc | cgcccgcgc | tcaacggggc | cgatgctctt | 120 |
| ctcgctccgg | gagctggtgc | agtggctagg | cttcgccacc | ttcgagatct | tcgtgcacct | 180 |
| gctggccctg | ttgggtgttt | ctgtgctgct | ggcactgctg | gtggatggcc | tgggtccggg | 240 |
| ctctctctgg | tggaaagtgt | tcgtgccttt | cttcgccgct | gacgggctca | gcacctactt | 300 |
| caccaccatc | gtgtccgtgc | gcctcttcca | ggatggagag | aagcggctgg | cggtgctccg | 360 |
| cyttttcttg | gtacttacgg | tcctgagtct | caagtctgtc | ttcgagatgc | tgttggtgcca | 420 |
| gaagctggcg | gagcagactc | gggagctctg | gttcggcctc | attacgtccc | cgctcttcat | 480 |
| tctctgcag | ctgctcatga | tccgcgcctg | tcgggtcaac | tagcctcacc | gaggtgcccg | 540 |
| agaggggagc | ctggacaact | agaatgttga | cctcgagccg | aggccctact | tgacgcgcac | 600 |
| cgaggagag | gctctctagt | ctgaaggcac | cgccggcttg | cgccgagctg | agtgccgggt | 660 |
| ttccctattc | caatcctgtt | tgaatgggt | tcttcagcag | ggcttaaaag | agcagccttc | 720 |
| atcctgaaaa | tgtatttcct | tttgtttaat | gctttgagta | gataatcctg | aattgagggtc | 780 |
| atgaggaggc | ccccaggccc | agacagtcct | gaacccctct | gacacttgga | aactgaatat | 840 |
| aagtaaaatg | tccaggtgga | ctctgagtat | ttcctgtgga | tcctgggaaa | gtactgttgc | 900 |
| acaaaggctg | caaagctgga | ctcaggaatg | tcctccaacc | agcagcgctg | acctaagagc | 960 |
| tcctgtgtcc | gtctatccag | accagacttc | ggtagatgcc | tttgtagat | ctatcacatg | 1020 |
| taaacgagct | tgtatctcct | tccctgtgcc | acgagagaga | ttggcttttt | attccagtct | 1080 |
| aggcagagac | agaagaatgt | tgaataagag | cacgattaga | gtcctgtctg | gttatctgtt | 1140 |
| gccaagaaa | agaactctgc | tgtccaggca | ctgcttggtc | tactatccca | gcaaagactg | 1200 |
| cagttttgtg | gacttttgac | caccttgggc | tggcactctt | agcacacctg | agacagattt | 1260 |
| aagcctccct | aagagactga | agagaggaac | aggtgtcaga | tactcatagg | cactgagatc | 1320 |
| tacaaatggg | aagcttgtga | gtggcccatc | tttggtggcc | tacgaacttt | ggtttgatgc | 1380 |
| cagtcaggtg | ccacatgaga | acctttgtctg | agatgcaaat | aaagtaagag | aatgttttcc | 1440 |
| tgaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaagggc | ggcc | 1494 |

<210> 270

<211> 1216

<212> DNA

<213> Homo sapiens

<400> 270

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ataactcagg | cccggtgccc | agagcccagg | aggaggcagt | ggccaggaag | gcacaggcct | 60 |
| gagaagtctg | cggctgagct | gggagcaaat | ccccacccc | ctacctgggg | gacaggggtc | 120 |
| agcggccatg | gctacagcaa | gacccccctg | gatgtgggtg | ctctgtgctc | tgatcacagc | 180 |
| cttgcttctg | ggggtcacag | agcatgttct | cgccaacaat | gatgtttcct | gtgaccaccc | 240 |
| ctctaaccac | gtgccctctg | ggagcaacca | ggacctggga | gctggggccg | gggaagacgc | 300 |
| ccggtcggat | gacagcagca | gccgcatcat | caatggatcc | gactgcgata | tgacacacca | 360 |

```

gccgtggcag gccgcgctgt tgctaaggcc caaccagctc tactgcgggg cgggtgttgg 420
gcatccacag tggctgctca cggccgccc ctgcaggaag aaagttttca gagtccgtct 480
cggccactac tccctgtcac cagtttatga atctgggcag cagatgttcc aggggggtcaa 540
atccatcccc caccctggct actcccaccc tggccactct aacgacctca tgctcatcaa 600
actgaacaga agaattcgct ccactaaaga tgcagaccc atcaacgtct cctctcattg 660
tccctctgct gggacaaaagt gcttgggtgc tggctggggg acaaccaaga gcccacaagt 720
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agactcctgc cagggtgatt ctggggggcc tgtggtctgc aatggctccc tgcagggaact 900
cgtgtcctgg ggagattacc ctgtgcccc gcccaacaga ccgggtgtct acacgaactc 960
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tcattccttc ccagagactg ttgagaatgt tcatctctcc agcccctgac cccatgtctc 1140
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ggaacaattt ccaaaa

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<210> 271

<211> 859

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (27)..(27)

<223> n equals a,t,g, or c

<400> 271

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cccaatgccca ccctcattct ggccatcggc gctttcaccc tccctcctctt cagtctgcta 180
gtgtcaccac ccacctgcaa ggtccaggag cagccaccgg cgatccccga ggccctggcc 240
tggcccactc caccaccccg cccagccccg gcccctgtcc atgccaacac ctctatggct 300
accaccccg acttcgccac gcagccgcag caggttcaga acttcctcct gtacagacac 360
tgccgccact ttccctgct gcaggacgtg ccccccctta agtgcgcgca gccggtcttc 420
ctgctgctgg tgatcaagtc ctcccctagc aactatgtgc gccgcgagct gctgcggcgc 480
acgtggggcc gcgagcgcaa ggtacggggg ttgcagctgc gcctcctctt cctggtgggc 540
acagcctcca accgcacga ggcgcgcaag gtcaaccggc tgcctggagct ggaggcacag 600
actcacggag acatcctgca gtgggacttc cagactcct tcttcaacct cagctcaag 660
caggtgcgct ggactggggg cactgatcg gggccactg tccctcttgt ccaaattacc 720
actccactcc agcctgggca acaaaagcga aaactccatc tccaaaaaaa taataataat 780
aataataaaa taaaaatcac acaaaggcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa

```

<210> 272

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 272

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ctggatcaag cttctcagc ggtgggtctg gatgtgggta aactaaggta aaggggatga 120
tattccacaa actaattatg cacacagaaa atctgtggag cctatcagac ccaagtgtc 180
ttgaaatggt ttagaaaacc cactaaaatg ccccttctct ggggtgtggc ccttattgca 240
gctgtctcac agcctgagct gtggtacaga gaaatggggg ttctcctttt attttcattt 300
tttttcccc atggcagctt ttctccggtt gttttacctt cctatttccc aaacagtccc 360
tcttattttg tctttgcac cagtttctgg aggcccttgt catttcaaaa aggatagtct 420
cttttcttac tctggcaaac ctgtgagtga ttccacaaag atacagtatt acttagctaw 480
ctgaattatg atagaaaagg tcctagttag gttcctatat aaagcatttg gaagatgacc 540
ttgttgccct tgaacttga aaatagggat tctggggtga ggatacaaa acattgtctt 600
gcatatccat aagcaggtct tagagcatta ttccaaactc tagctgtttc agtagttcta 660
tgaggattgc aagtcatagg tgtgtgtggc atatcagctc atctccctca tctccattct 720

```

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|------|
| cagtttcttc | cccacaaaat | ttggaatcaa | agcttttatg | acgttttgcca | attgcagAAC | 780 |
| ttcttcagct | aaggTTaatt | tgacgctatg | ataaaactga | gagatgtcaa | aaagcctctt | 840 |
| agaaatttta | atcttgaaag | acttttcagg | gtatctcatt | ttttagggtg | gggtggcagg | 900 |
| tgtatttctt | ttttaacaaa | taaaaggcat | ttaaagtaaaa | ctaaaatgaa | aaaagtaggc | 960 |
| cttctgacat | tgtgtacttg | gtggttctgt | ccctctgcct | gtaacaaatc | tcatttttgt | 1020 |
| taccaagaac | tgtatgaaag | aagtaaatcc | accccgattc | tgtatgatta | attccatctg | 1080 |
| tgtttgtcat | ttctgactgg | aaaacttctt | actccatacc | ttgttcgata | tggaggacaa | 1140 |
| ataattggat | tgtctgataa | gtctgccaat | aaactatcca | gaaatagcaa | gtgtaaaaaa | 1200 |
| aaaaaaaaa | aaaaaaaaa | aaaaaaaaa | gggcggcc | | | 1238 |

<210> 273

<211> 1189

<212> DNA

<213> Homo sapiens

<400> 273

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|------|
| gcgtccgctg | ggctggaaca | gcacagaacc | cacagggctg | ccgtccacac | tctcccggtc | 60 |
| agagtcctgg | gaccacatgg | ggacgctgcc | atggcttctt | gccttcttca | ttctgggtct | 120 |
| ccaggcttgg | gatactccca | ccatcgtctc | ccgcaaggag | tgggggggcaa | gaccgctcgc | 180 |
| ctgcaggggc | ctgctgaccc | tgctgtggc | ctacatcatc | acagaccagc | tcccagggat | 240 |
| gcagtgccag | cagcagagcg | tttgagccca | gatgctgcgg | gggttgagtc | cccattccgt | 300 |
| ctacaccata | ggctggcg | acgtggcgta | caacttctctg | gttggggatg | atggcagggt | 360 |
| gtatgaaggt | gttggctgga | acatccaagg | cttgacacac | cagggtctaca | acaacatttc | 420 |
| cctgggcac | gccttctttg | gcaataagat | aagcagcagt | cccagccctg | ctgccttatc | 480 |
| agctgcagag | ggctctgatct | cctatgccat | ccagaagggt | cacctgtcgc | ccaggtatat | 540 |
| tcagccactt | cttctgaaag | aagagacctg | cctggaccct | caacatccag | tgatgccag | 600 |
| gaaggtttgc | cccaacatca | tcaaacgatc | tgcttgggaa | gccagagaga | cacactgccc | 660 |
| taaaatgaac | ctcccagcca | aatatgtcat | catcatccac | accgctggca | caagctgcac | 720 |
| tgtatccaca | gactgccaga | ctgtcgtccg | aaacatacag | tcctttcaca | tggacacacg | 780 |
| gaacttttgt | gacattggat | atcaataagg | ccaggcgtgg | cggcgattac | gtctgtaatc | 840 |
| ccaggacttt | gggaggccaa | ggcgggcaga | tcacttcagg | ccaggaattc | aagagcagcc | 900 |
| tggccaatat | ggcgaaactc | tgtctctact | gaaaacaaac | aaacaaacaa | acaaacaaac | 960 |
| aaagaaacaa | caaaaattag | ccgggtgtgg | tggcacacgc | ctgtagtccc | agctactcag | 1020 |
| gaggctgagg | cataagaatt | gcttgaaccc | tggaggcgga | ggttgcagtg | agctgagatt | 1080 |
| gggccaccgc | actccagtct | gggagacaga | gtgagactgt | ctcaaaacaa | caacaaaaaa | 1140 |
| atccctaaca | taatctcaaa | aaaaaaaaa | aaaaaaaaa | aaaaaaaaa | | 1189 |

<210> 274

<211> 496

<212> DNA

<213> Homo sapiens

<400> 274

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| tcgacccacg | cgtccgaact | gacacaatga | aactgtcagg | catgtttctg | ctcctctctc | 60 |
| tggtcttttt | ctgcttttta | acaggtgtct | tcagtcaggg | aggacagggt | gactgtggtg | 120 |
| agttccagga | caccaaggtc | tactgcactc | gggaatctaa | cccacactgt | ggctctgatg | 180 |
| gccagacata | tggcaataaa | tgtgccttct | gtaaggccat | agtgaaaagt | gggtggaaga | 240 |
| ttagcctaaa | gcatcctgga | aaatgctgag | ttaaagccaa | tgtttcttgg | tgacttgcca | 300 |
| gcttttgcag | ccttcttttc | tcacttctgc | ttatactttt | gctgggtggat | tcctttaatt | 360 |
| cataaagaca | tacctaactct | gcctgggtct | tgaggagtcc | aatgtatgtc | tatttctctt | 420 |
| gattcacttg | tcaataaagt | acattctgca | aaagcaaaaa | aaaaaaaaa | aaaaaaaaa | 480 |
| aaaaaaaaa | aaaaaa | | | | | 496 |

<210> 275

<211> 3153

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2584)..(2584)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2590)..(2590)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (3153)..(3153)

<223> n equals a,t,g, or c

<400> 275

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| gctgcccctg | ctgtcgctcc | tggtcggcgc | gtggctcaag | ctaggaaatg | gacaggctac | 120 |
| tagcatggtc | caactgcagg | gtgggagatt | cctgatggga | acaaattctc | cagacagcag | 180 |
| agatggtgaa | gggcctgtgc | gggagggcgc | agtgaacccc | tttgccatcg | acatatctcc | 240 |
| tgtcaccaac | aaagatttca | gggattttgt | cagggagaaa | aagtatcgga | cagaagctga | 300 |
| gatgtttgga | tggagctttg | tctttgagga | ctttgtctct | gatgagctga | gaaacaaagc | 360 |
| caccagcca | atgaagtctg | tactctgggt | gcttccagtg | gaaaaggcat | tttgaggcca | 420 |
| gcctgcagg | cctggctctg | gcattccgaga | gagactggag | caccagtggt | tacacgtgag | 480 |
| ctggaatgac | gcccgtgcct | actgtgcttg | gcggggaaaa | cgactgcccc | cggagggaaga | 540 |
| gtgggagttt | gccgcccag | ggggcttgaa | gggtcaagtt | tacccatggg | ggaactgggt | 600 |
| ccagccaaac | cgcaccaacc | tgtggcagg | aaagttcccc | aaggagagaca | aagctgagga | 660 |
| tggcttccat | ggagtctccc | cagtgaatgc | tttccccgcc | cagaacaact | acgggctcta | 720 |
| tgacctcctg | gggaacgtgt | gggagtgag | agcatcaccg | taccaggctg | ctgagcagga | 780 |
| catgcgcgtc | ctccgggggg | catcctggat | cgacacagct | gatggctctg | ccaatcaccg | 840 |
| ggccgggggt | accaccagga | tgggcaacac | tccagattca | gcctcagaca | acctcggttt | 900 |
| ccgctgtgct | gcagacgcag | gccggccgcc | aggggagctg | taagcagccg | ggtggtgaca | 960 |
| aggagaaaag | ccttctaggg | tactgtcat | tccctggcca | tgttgcaaac | agcgcaattc | 1020 |
| caagctcgag | agcttcagcc | tcaggaaaga | acttccccct | ccctgtctcc | catccctctg | 1080 |
| tggcaggcgc | ctctcaccag | ggcaggagag | gactcagcct | cctgtgtttt | ggagaagggg | 1140 |
| cccaatgtgt | gttgacgatg | gctggggggc | aggtgtttct | gttagaggcc | aagtattatt | 1200 |
| gacacaggat | tgcaaacaca | caaacaattg | gaacagagca | ctctgaaagg | ccatttttta | 1260 |
| agcattttaa | aattctattct | ctcccccttt | ctccctggat | gattcaggaa | gctgacattg | 1320 |
| tttctcaag | gcagaatttt | cctgggtctg | ttttctcagc | cagttgctgt | ggaaggagaa | 1380 |
| tgttttcttt | gtggcctcat | ctgtggtttc | gtgtccctct | gaaggaaact | agtttccact | 1440 |
| gtgtaacagg | cagacatgta | actattttaa | gcacagttca | gtcctaaaag | ggtctgggag | 1500 |
| aaccagatga | tgtactaggt | gaagcattgc | attgtgggaa | tcacaaagca | aatagtactc | 1560 |
| cagaaagaca | aatatcagaa | gcttccattt | cttttttttt | tttttttttt | tttgagacag | 1620 |
| ggtctttctc | tgttgcccag | gctagagtgc | actggtgatc | acggctcact | ctagccttga | 1680 |
| attcctgggc | ccaagcaatt | ctcccacctc | agcctcctga | gtagctggga | ctacaagtggt | 1740 |
| gcaccaccat | gcctggctaa | ttttttgaat | ttttgtagtg | atgggatctc | gctctgttgc | 1800 |
| ccagggtggg | ctcgaactcc | tggcctcaag | cgatcctccc | acctcgacct | cccaaagtgc | 1860 |
| tgggattaca | ggtgtgagcc | acctcgctcg | ggcccccttc | tccatatgcc | tccaaaaaca | 1920 |
| tgtccctgga | gagtgcctg | ctcccacact | gtcactggat | gtcatggggc | caataaaatc | 1980 |
| tcttgcaatt | gtgtatctca | gacattttgt | tctttgatcc | tcaccctgtg | accctaaagg | 2040 |
| gaagaaaagg | tgagtgtcaa | gtaactctgg | gcctccccta | aagagaaatg | gagatggtgg | 2100 |
| ctcatctagg | aagtagagga | gcaggggggt | cctgtgtctc | aggccacgtg | tgatctctgc | 2160 |
| ccaccagggg | cctgccccag | cctgcaggta | ttgtgtgtgt | gtgggaacac | ccacttccct | 2220 |
| tgtgcacagc | ctttgagagg | ggatcgtggc | ctcagttcca | ggggttcctg | gccagggcca | 2280 |
| agtgtccttt | ctgcagaggc | ctgcacgcat | ctcacccttt | tgacttgtat | ttccatggct | 2340 |
| tcccctcccc | acctgcccc | tagccctccc | tgactggcca | gccccctcagt | agtcctcctc | 2400 |
| ggccagggag | aggagcacgg | ccttggggtgt | gttctcgaaa | agggctgccc | ggttctgctg | 2460 |
| ctgccccttc | ttcaccaggt | ggccatagat | tcggaaagcg | taggcgtcga | tgagccggcg | 2520 |
| cagaggccgg | agggcatagg | ggtctcggat | gacgatctcc | cgggtcacag | gcttcacccg | 2580 |

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gcgntactgn tagtagatcc gcactgaagc cagcacggtc agagcgatca ccttgaactt 2640
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```

<210> 276

<211> 686

<212> DNA

<213> Homo sapiens

<400> 276

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tgagggctg accagcaggc agcctcatct ggtcggggg gggggcgga ggagcagaag 180
cggggtctcc gtccttgga ctgtcctggt tggccacgg ccctgaggat gcacggtgcc 240
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gcgagggtgt gcttgcaaat tcaagcaata agaggggggt tcctgggggc ttccagccca 360
ggctagaagc ccccatggct tctggcagct ggacatcagc ccaggtatt ggggtgattt 420
tggctcatgac agtgtgcctg tccactgtt acacgcatga atgggggtta tgggtgggg 480
gtgggactca aggcttgacc gactcctagt ggacctgat tgaaattcct gtcaaacaaa 540
caccatttt caatggtttg ctaggagtat ttctgtattg aaagtttcta attatgcttt 600
ttaaaaaaat actaaaaata aaggttcaag ctgccaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaa aaaaaaaaaa aaaaaa 686

```

<210> 277

<211> 2352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 277

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cagtcctccc caccgcaagg ctcaaggcgc cgccggcgctg gaccgcgcac ggctcttagg 180
tctcctcgcc aggacagcaa cctctcccct ggccctcatg ggcaccgtca gctccaggcg 240
gtcctgggtg ccgctgccac tgctgtgct gctgtgctg ctctgggtc ccgcgggcgc 300
ccgtgcgcag gaggacgagg acggcgacta cgaggagctg gtgctagcct tgcgttccga 360
ggaggacggc ctggccgaag caccgagca cggaaccaca gccaccttc accgctgcgc 420
caaggatccg tggaggttgc ctggcaccta cgtggtggtg ctgaaggagg agaccacct 480
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caccaagatc ctgcatgtct tccatggcct tcttctggc ttctggtga agatgagtgg 600
cgacctgtcg gagctggcct tgaagttgcc ccatgtcgac tacatcgagg aggactctc 660
tgtctttgcc cagagcatcc cgtggaacct ggagcggatt acccctccac ggtaccgggc 720
ggatgaatac cagccccccg acggaggcag cctggtggag gtgtatctcc tagacaccag 780
catacagagt gaccaccggg aaatcgaggg cagggtcatg gtcaccgact tcgagaatgt 840
gcccaggagg gacgggaccc gcttccacag acaggccagc aagtgtgaca gtcatggcac 900
ccacctggca ggggtggtca gcggccggga tgcggcgctg gccagggtg ccagcatgca 960
cagcctgcgc gtgctcaact gccaaaggaa gggcacggt agcggcacc tcataggcct 1020
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cctggcgggt gggtagagcc gcgtcctcaa cgccgcctgc cagcgcttg cgagggtgg 1140
ggtcgtgctg gtcaccgctg ccggcaactt ccgggacgat gcctgcctct actccccagc 1200

```



```

ctcagctccc gaggtcatca cagttggggc caccaatgcc caggaccagc cggtgaccct 1260
ggggactttt gggaccaact ttggccgctg tgtggacctc tttgcccag gggaggacat 1320
cattgggtgcc tccagcgact gcagcacctg ctttgtgtca cagagtggga catcacaggc 1380
tgctgcccac gtggctggca ttgcagccat gatgctgtct gccgagccgg agctcacctt 1440
ggccgagttg aggcagagac tgatccactt ctctgcaaa gatgtcatca atgaggcctg 1500
gttccctgag gaccagcggg tactgacccc caacctggtg gccgccctgc ccccagcac 1560
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gctaccccag gccaaactgca gcgtccacac agctccacca gctgaggcca gcatggggac 1860
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caaagtcaag gagcatggaa tcccggcccc tcaggagcag gtgaccgtgg cctgcgagga 2100
gggctggacc ctgactggct gcagtgccct ccctgggacc tcccacgtcc tgggggccta 2160
cgccgtagac aacacgtgtg tagtcaggag ccgggacgtc agcactacag gcagcaccag 2220
cgaagaggcc gtgacagccg ttgccatctg ctgccggagc cggcacctgg cgcaggcctc 2280
ccaggagctc cagtgcagc cccatcccag gatgggtgtc tggggagggt caagggtctg 2340
ggctgagctt ta 2352

```

<210> 278

<211> 1105

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (797)..(797)

<223> n equals a,t,g, or c

<400> 278

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aaatgcacag aacataaaat ttgccattag taacactgag tacattcaca gtgtcgtgca 120
accatcagca ctgtctagcg ccagaacttt ttcatacccc caaagggaaa ccccgatatc 180
atgaaggact cactcccatc tcgccctctc cagcccttgg cagccaccag aatgctttct 240
gtctccataa attcattttt aataagtgca attctgtgtg actttaaaat aaataaacat 300
gagcacgatg agttgcttat tgggaaggata tccatgcggg gaggccggcg tgtggagtgc 360
gtargcctcc ggacgggcag gaggttgaagg ggcgtggatg tgccgcctc tcctccctt 420
gctctttcct tggggtcact gcctgagtat cctctttgc aaatggcccc aaataatgtc 480
tcagcccca cgtctgcatc gcctcctagc ttcaggaccc tccacaaaa aacattccaa 540
gcttcagact cactcctggg aaaattccaa tggcctcact ctcccttttg agccagccag 600
atcccatggc ctgtggcggg ctgcctttga gtcctgagca cctgtgagyt aggggaagcag 660
gacaggcaca cccagggaag gggaagagtc gtcgtcagtc acagtaattg atatcttttg 720
aatcgtctaa gagatactta gcgtgtgcct aaaacattca tttctttttt tgtttgtttt 780
ttwgagcgaa gtctcgnctc gtcgcccagg ctggagtga gtggcgtgat ctgagctcac 840
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actgcaggca cacactacca cgcttggtta gttttttgta twtttagkkg agacgggggt 960
tactatgtt ggccaggctg gtctcaaaact cctgacctcg tgatctgcct acctcggcct 1020
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aaaaaaaaa aaaaagggcg gccgc 1105

```

<210> 279

<211> 2496

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2340)..(2340)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2373)..(2373)

<223> n equals a,t,g, or c

<400> 279

```

ggccttacct actagcggaa tcgactgaag agacgcctgc cagtgcggga ggtaggaagc      60
tcgatcccca aagaaaagag cgagtgggca ggcagctgcg agacagaacc ggagtgtgca      120
gggtccctag aggccggttc ctggtctgtg ctgctctcct ggaagccatg gtacaggcag      180
agctcagggc gatccccagg tgagggcagc ggctctgcct gggattccac cgagtagcaa      240
ccgggtagat gcgggggtgga gaagaaagga tgttgctgc actgctcgcc aatagcacc      300
tgagaggcta catttgcaga agcagcagca gcagaagaca cagcgccggt ccaggaggcg      360
gctcgagctg ttcgtaaagt cgcgcgacag ctttttctcc gtagtatgcg agttgacaaa      420
acagccagag aacagggctc cccattacaa tcttttcgag atcttttccc ttgctaaccg      480
gatctgattt gtgcgaaaac atgccttgca cttgtacctg gaggaactgg agacagtgga      540
ttcgaccttt agtagcgtc atctacctgg tgtcaatagt ggttgcgggt cccctatgcg      600
tgtgggaatt acagaaactg gaggttggaa tacacaccaa ggcttgggtt attgctggaa      660
tctttttgct gttgactatt cctatatcac tgtgggtgat attgcaacac ttagtgcatt      720
atacacaacc tgaactacaa aaaccaataa taaggattct ttggatggta cctatttaca      780
gtttagatag ttggatagct ttgaaatatc ccggaattgc aatatatgtg gatacctgca      840
gagaatgcta tgaagcttat gtaatttaca actttatggg attccttacc aattatctaa      900
ctaaccggta tccaaatctg gtattaatcc ttgaagccaa agatcaacag aaacatttcc      960
ctcctttatg ttgctgtcca ccatgggcta tgggagaagt attgctgttt aggtgcaaac     1020
taggtgtatt acagtacaca gttgtcagac ctttcaccac catcggtgct ttaatctgtg     1080
agctgcttgg tatatatgac gaagggaaact ttagcttttc aaatgcttgg acttatttgg     1140
ttataataaa caacatgtca cagttgtttg ccatgtattg tctcctgctc tttataaagg     1200
tactaaaaga agaactgagc ccaatccaac ctgttggcaa atttctttgt gtaaagctgg     1260
tggtttttgt ttcttttttg caagcagtag ttattgcttt gttggtaaaa gttggcgta     1320
tttctgaaaa gcatacgtg gaatggcaaa ctgtagaagc tgtggccacc ggactccagg     1380
attttattat ctgtattgag atgttcctcg ctgccattgc tcatcattac acattctcat     1440
ataaaccata tgtccaagaa gcagaagagg gctcatgctt tgattccttt ctgacctgt     1500
gggatgtctc agatattaga gatgatattt ctgaacaagt aaggcatgtt ggacggacag     1560
tcaggggaca tcccaggaaa aaattgtttc ccgaggatca agatcaaaat gaacatacaa     1620
gtttattatc atcatcatca caagatgcaa tttccattgc ttcttctatg ccaccttcac     1680
ccatgggtca ctaccaaggg tttggacaca ctgtgactcc ccagactaca cctaccacag     1740
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aatccgtgga ttctgaaca gtatggaaaa gcaaactgtg caactactac attatcat     1860
tacctgggat cccatggatt ttgtgcttgg gacagaccat aaatgatgga aaatgtcaac     1920
acaaaaatag ctgaaagcca ggtacaacta ctgcatttat atatgtaagt tttgtatata     1980
aaaaataatt ggtctaaatt tcctagactt agacttgatt tcttaacatt agggatcgc     2040
atactcaaat ggtagacaat gaccccaact aaatcttctt gatgttacac tgctttatca     2100
agaggatgga cttttttttt ttgaggcaga cagagtcttg gctctgtcac ccaggctgga     2160
gtgcagtggc gcaatctcgg gtcactgcaa gctctgcctc ccaagtccat gccattctcc     2220
tgccctcagc tcccagtag ctgcgactac aagcacctgc caccatgcc agctaatttt     2280
ttttttcagt agagacaggg tctcaccatg ttagccacga tgctcttgat ctgaccttgn     2340
gatcccgcg cctcggcctt ccaaagtgtt ggaataacag gcgtgagcca ctgggccttg     2400
ccaagattgg gcacttttta acatcagaac ttctatcac tgctgcattg agttgctccg     2460
catttattag aagcattatg cctgtacgga ttggggg                                     2496

```

<210> 280

<211> 549

<212> DNA

<213> Homo sapiens

<400> 280

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ctatcaatgc agcaattgga gtcactacgt caccgggtgct gccttctctg atccagcttc     120
ttggaagaaa ttttattttg tttatcatct ttggcaccat ggaagaaatg cagaacaaaag     180
ctgtgggttt ctttgtgttt tatgtgtgga gtgcaattga aattttcagg tactctttct     240
acatgctgac gtgcattgac atggattgga aggtgctcac atggcttcgt tacactctgt     300

```

```

ggattccctt atatccactg gggatgtttg gcggaagctg tctcagtgat tcagtccatt 360
ccaatattca atgagaccgg acgattcagt ttcacattgc catatccagt gaaaaatcaaa 420
gttagatttt ccttttttct tcagatttat cttataatga tatttttagg gttatacata 480
aattttcgtc acctttataa acagcgcgaga cggcgctatg gacaaaaaaa aaaaaaaaaa 540
aaaaaaaaa 549

```

<210> 281

<211> 1001

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (919)..(919)

<223> n equals a,t,g, or c

<400> 281

```

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aggtatagga agaatgcgta tcttttcac tttacttaa tccagttctg tggccactct 120
tggatattta caaatatgac agtcagattc ttttcatttg gaaaaggtaa aactccgaaa 180
cagttttttt atttttaact ttttaacctt gttttcacct catcctgctt atattaaatt 240
tctacacacc tcaaccttct accacgggat acagattcaa tgggtgacac tttttatgct 300
attggacttg tgatgcgact ttgccaatcc gtatctctcc tggaaactgct gcacatatat 360
gttggcattg agtcaaacca tcttctccca aggtttttgc agctcacaga aagaataatc 420
atcctttttg tggatgacac cagtcaagag gaagtccaag agaaatatgt ggtgtgtgtt 480
ttattcgtct tttggaatct attggatatg gttaggatca cttatagcat gttatcagtc 540
ataggaatat cctatgctgt cttgacatgg ctgagcaaaa cactatggat gccaatattat 600
cctttgtgtg tctctgtgta agcatttgcc atctatcaat cgctgcctta ttttgaatca 660
tttggcactt attccaccaa gctgcccttt gacttatcca tctatttccc atatgtgctg 720
aaaatatatc tcatgatgct ctttataggt atgtatttta cctacagtca tctatactca 780
gaaagaagag acatcctcgg aatctttccc attaaaaaaa agaagatgtg aagtacagca 840
ttccagtgtg acacgagaaa agacaggctg tggattcagt gcagtaaata aaacacagga 900
agtattctgg tggaaaaana aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aawaaaaaaa 960
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a a 1001

```

<210> 282

<211> 1432

<212> DNA

<213> Homo sapiens

<400> 282

```

acgagagatt taagtgcagc gtggatTTTT tttttctcac tttgccttgt gttttccact 60
ccgaaagaat gttgtggctg ctcttttttc tgggtgactgc cattcatgct gaactctgtc 120
aaccagggtg agaaaatgct tttaaagtga gacttagtat cagaacagct ctgggagata 180
aagcatatgc ctgggatacc aatgaagaat acctcttcaa agcgatggta gctttctcca 240
tgagaaaaagt tcccaacaga gaagcaacag aaatttccca tgcctactt tgcaatgtaa 300
cccagagggt atcattcttg tttgtggtta cagacccttc aaaaaatcac acccttcttg 360
ctgttgagggt gcaatcagcc ataagaatga acaagaaccg gatcaacaat gccttctttc 420
taaatgacca aactctggaa tttttaaaaa tcccttccac acttgcacca cccatggacc 480
catctgtgcc catctggatt attatatatt gtgtgatatt ttgcatcatc atagttgcaa 540
ttgcaactact gattttatca gggatctggc aacgtagaag aaagaacaaa gaaccatctg 600
aagtggatga cgctgaagat aagtgtgaaa acatgatcac aattgaaaaat ggcatcccc 660
ctgatccccc ggacatgaag ggagggcata ttaatgatgc cttcatgaca gaggatgaga 720
ggctcaccct tctctgaagg gctgtgttc tgcttctca agaaattaaa catttgtttc 780
tggttgactg ctgagcatcc tgaaatacca agagcagatc atatatattt tttcaccatt 840
cttcttttgt aataaatttt gaatgtgctt gaaagtgaaa agcaatcaat tataccacc 900
aacaccactg aatcataag ctattcacga ctcaaaatat tctaaaatat ttttctgaca 960
gtatagtgtg taaatgtggt catgtgttat ttgtagttat tgatttaagc attttttagaa 1020
ataagatcag gcatatgtat atattttcac acttcaaaga cctaaggaaa aataaatttt 1080
ccagtggaga atacatataa tatggtgtag aaatcattga aaatggatcc tttttgacga 1140
tcacttatat cactctgtat atgactaagt aaacaaaagt gagaagtaat tattgtaaat 1200

```

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| ggatggataa | aaatggaatt | actcatatac | agggtggaat | tttatcctgt | tatcacacca | 1260 |
| acagttgatt | atatattttc | tgaatatcag | cccctaatag | gacaattcta | tttgttgacc | 1320 |
| atttctacaa | tttgtaaaag | tccaatctgt | gctaacttaa | taaagtaata | atcatctctt | 1380 |
| tttgattgtg | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aa | 1432 |

<210> 283

<211> 1048

<212> DNA

<213> Homo sapiens

<400> 283

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|------|
| ccacgcgtcc | ggcagtgaac | actctttgct | aaattttctga | ctgaatccaa | gatttttctc | 60 |
| tagaatagat | tcttaaaagt | ggggggccagg | tgcggtggct | cacacctata | atcccagcac | 120 |
| cttgggaggc | cgagggtggcc | agatcattga | ggtcaggagt | ttgaaaccag | cctggccaac | 180 |
| atggtgaaac | cccgtctcta | ctaaaaatac | aaaaattagc | caggtgtgtg | gggcgtgcgc | 240 |
| ctgtagtccc | agctacttgg | gaggctgagg | caggagaatc | gcttgagcct | gggaagcaga | 300 |
| ggttgcatgg | gccgggatca | cgccactgca | ctccagcctg | ggtgacagca | agactccatc | 360 |
| taagaaaaca | aaaaaaaaaa | gtacgattgg | tgcgccagag | tgaacacaaa | atgtaaagac | 420 |
| ttgtgtattt | gtgagaccct | tttgaagcat | gctatctccc | cagctacacc | ctcttcaggt | 480 |
| gccccctccc | tgccctcctc | tgcttttcac | actgtggctc | gtggttccag | gctcaagcac | 540 |
| ggacatcagt | gaggactggg | agaaagactt | tgacttggac | atgactgaag | aggaggtgca | 600 |
| gatggcactt | tccaaagtgg | atgcctccgg | ggaggtgagt | gggcctgggt | ggtcagaggg | 660 |
| aagcgagcct | aatggtcctg | ggtgtgagag | ctctccccag | ccagcccagc | tgtcccctca | 720 |
| ggagggtccc | tgctcctgtc | tgagggtgaca | ggtggtggga | aaggagctgg | agcttcctgc | 780 |
| tcagaccac | aacattggtc | atcagcaggc | tgcaactttc | ctcagttcca | gggtggatag | 840 |
| agggtcaagt | tcttgacctt | agctctgtat | caaaattgcc | tgagaaactg | cttaagaaaa | 900 |
| cagatgtcat | gctgagcacg | gtggctcaca | cctgtaatcc | caacactttg | ggaggccaag | 960 |
| gtgggaggat | tgcttgaggc | gaggagttca | agaccagcct | ggccaatata | gtgagacccc | 1020 |
| atttctgttt | ttgaaaaaaa | aaaaaaaaaa | | | | 1048 |

<210> 284

<211> 1021

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (971)..(971)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1004)..(1004)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1008)..(1008)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1010)..(1010)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1018)..(1018)

<223> n equals a,t,g, or c

<400> 284

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| ggccgccectt | tttttttttt | tttttttttt | tttttttttt | ttttggcctt | agtcacatt | 60 |
| tcttgaataa | tacaaatagg | taagacaatt | ttacaaaaat | tgtgctatag | aataggatat | 120 |
| ttgtgacttt | ttagatgaaa | tattagagct | acccaccca | gccacagata | gcactgtaac | 180 |
| actttcttaa | tagagtatag | gttcaaatta | taaagtcac | acactggcta | aaaagttcaa | 240 |
| gttcagagtt | tcaatcaatt | ttcattgtaa | ggatgaaact | gagttttact | caacttgtgt | 300 |
| ctttttaaga | gaatgggcca | cctcccacac | atcctttctc | ttggactttt | tttaacactt | 360 |
| ctaattgttct | gtatcacgaa | atcagatggc | caaaacaaaa | tctacaggtg | ctttaaaaaa | 420 |
| gcaagtcccc | aagtgattgt | taccataacc | aaaatgagaa | ttgctgctat | aatctgttct | 480 |
| tactggamtg | gccakgcca | tcttgggact | aggattaaat | tgcaattaaa | ttckgcagtg | 540 |
| tacaaaattt | ttgtcagtct | gyctagaaaa | agaaagagaa | ctctttcatg | gtagagcagt | 600 |
| tactgtgctc | acgttgcttt | ttctaaaaac | caacctactt | tcaaacaag | aatgaggaaa | 660 |
| tttgagataa | attttaata | tgagtcacgg | aaatattaa | ataatagcat | gtgtgggcaa | 720 |
| taataagtat | gccaagaaat | aaagagtaat | atacaaaa | atcaaacatt | attacatttg | 780 |
| gctacgaggt | tcctaataaa | cagggcaaaa | taaatagtga | aatataataa | aatcgttatc | 840 |
| atctgataaa | aggctgcatg | gtacttttcc | caaacgtaat | ggatgacttc | aacacatttt | 900 |
| cttattaaat | atttcaaat | gtttcttcat | gtgaaaactg | tcttattaat | tgtaaaaagg | 960 |
| atgtaacttg | nataggcatg | ctcaacaggg | gtaagagtaa | ttcngtangn | gccccctnga | 1020 |
| t | | | | | | 1021 |

<210> 285

<211> 1492

<212> DNA

<213> Homo sapiens

<400> 285

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| gccttccac | actccattcc | ctgtcaagtt | atggctgtcc | cctcaccca | gctgctccta | 60 |
| gagaggccct | tkttacctgt | gtcattcatg | tttctaaca | gccaccctcc | accccgctct | 120 |
| gtgtgcccc | tgcacctgtg | catctgtgct | gtgtgggtgt | tggtggccct | tttgcgcatg | 180 |
| catggggcat | cccctgccc | gaccagcggg | acaaggagcg | ggaacggcgg | ctgcaggagg | 240 |
| cacggggccg | gccaggggag | gggcgcggca | acacagccac | tgagaccacc | acgaggcaca | 300 |
| gccagcgggc | agctgatggc | tctgctgtca | gcactgttac | caagactgag | cggctcgtcc | 360 |
| actccaatga | tggcacacgg | acggcccgc | ccaccacagt | ggagtcgagt | ttcgtgaggc | 420 |
| gctcggagaa | tggcagtggc | agcaccatga | tgcaaaccaa | gaccttctcc | tcttctcct | 480 |
| catccaagaa | gatgggcagc | atcttcgacc | gcgargacca | ggccagccca | cgggcccggca | 540 |
| gcctggcggc | gctcgagaaa | cggcaggccg | agaagaagaa | agagctgatg | aaggcgagaa | 600 |
| gtctgccc | gacctcagcc | tcccaggcgc | gcaaggccat | gattgaraag | ctggagaagg | 660 |
| agggcgccgc | cggcagccct | ggcggaaccc | gcgcagccgt | gcagcgatcc | accagcttcg | 720 |
| gggtcccaa | cgccaacagc | atcaagcaga | tgtgctgga | ctggtgtcga | gccaagactc | 780 |
| gcggctacta | gcacgtcgac | atccagaact | tctcctccag | ctggagtgat | gggtaggcct | 840 |
| tctgtgccct | gggtcacaa | ttcttccctg | aggccttcga | ctatgggcag | cttagccctc | 900 |
| agaaccgagc | ccagaacttc | gaggtggcct | tctcatctgc | ggagaccat | gcggactgcc | 960 |
| cgcagctcct | ggatacagag | gacatggtgc | ggcttcgaga | gcctgactgg | aagtgcgtgt | 1020 |
| acacgtacat | ccaggaattc | taccgtgtgc | tggtccagaa | ggggctggta | aaaacaaaaa | 1080 |
| agtcctaamc | cctgctcggg | gccccacgga | tgtgtgtgga | ctgtgtgccc | ctggtggagg | 1140 |
| tggacgacat | gatgatcatg | ggcaagaagc | ctgaccccaa | gtgtgtcttc | acctatgtgc | 1200 |
| agtcgtctca | caaccacctg | cgacgccacg | aactgcgcct | gcgcggcaag | aatgtctagc | 1260 |
| ctgcccggcc | gcatggccag | ccagtggcaa | gctgcgcgcc | ccactctccg | ggcacctgtc | 1320 |
| cctgctgtg | cgtccgccc | ccgctgcctt | gtctgttgcg | acaccctccc | ccccacatac | 1380 |
| acacgcagcg | ttttgataaa | ttattggttt | tcaamraaaa | aaaaaaaaaa | aaaaaaaaaa | 1440 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | ag | 1492 |

<210> 286

<211> 1543

<212> DNA

<213> Homo sapiens

<400> 286

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgagat | ttgattctca | tgtctctttc | aaaagagcat | actagtttgg | ggtggttgg | 60 |
| tattttctta | accttagcaa | gccagcttat | ttcctatgga | agcagaactg | gaaacagcag | 120 |
| atgtccacca | tgtttatata | ggacactaca | cactgtctcg | acaagccatg | ttctttcttc | 180 |
| cctcttcgtg | agcactttct | ctggtgatga | gttagtatgg | actacttgaa | cctcaaaact | 240 |

```

gggcctctca cccaaagcca aatgaagtag cgtatgccag gatgatgttt cttttgggcc 300
gttggcagtg agactgctaa gcaggctgcc ttaggttttg ctgtggcaat gctagcagat 360
tgttccctct ttc aaagggg caaaaatata attttggat gataactgac tttctattta 420
cagtttcttg ccccaaaga caaaccaagt ggagacacag cagctgtatt tgaagaaggt 480
ggtgatgtgg acgatttagt aagtactttt aatatgcacc tgggtgttctg tgattgaagt 540
cacctgagct gtaatacag ccacaaaggc tgattatctt acacttgttg cttatttgtg 600
ttttaatttc caatacacca gaagcttcct ctgtgtttca tgggtgtcggc tatattgttc 660
atcagatagg taatttcata atagaaattc ctgtgtttca tgggtgtcggc tatattgttc 720
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gcaaaatggt gtaattcact gaaattgctg ttaaccacaa ataagtaata caacatggca 840
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ttaacttaat gtaacacaaa tagaccgata ggcatttgag gatttctgga cccattaca 960
ccatgttgtt gatgtctggg aagctgtgta gtaaatgtct tttgtatcta tccttaattgt 1020
ttggaaactt cccgccttta agcttcatat gacaactgac caacaaacac tacgtactat 1080
gatgtcaatc ttttttagag acatttctcat tactaaaatg agtggatact tgaatgttta 1140
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tttctaagtg tgttgttctt gttcacagtt ggacatgata taggtcgtgg atgtatgggg 1320
aatctaagag agctgccatc gctgtgatgc tgggagttct aacaaaacaa gttggatgag 1380
gccattcaag gggagccaaa atctcaagaa attcccagca ggttacctgg aggcggatca 1440
tctaattctc tgtggaatga atacacacat atatattaca agggataatt tagaccccat 1500
acaagtttat aaagagtcac tgttaaaaaa aaaaaaaaaa aaa 1543

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<210> 287

<211> 954

<212> DNA

<213> Homo sapiens

<400> 287

```

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ctcctctccc cgggtggaggc ccagcaggcc acggagcatt gcctgaagcc gtggctgggtg 180
ggcctggctg cggtagtcgg cttcctgttc atcgtctatt tggctctgct ggccaaccgc 240
ctctggtgtt ccaaggccag ggctgaggac gaggaggaga ccacgttcag aatggagtcc 300
aacctatacc aggaccagag tgaagacaag agagagaaga aagaggccaa ggagaaagaa 360
gagaagagga agaaggagaa aaagacagca aaggaaaggag agagcaactt gggactggat 420
ctggaggaaa aagagcccgg agaccatgag agagcaaaaga gcacagtcac gtgaagattc 480
ctggctgcct cttccaggca gtccccaga gatgcctctt ctgcccccta aaagcagtg 540
cctggacttg aagcccgtga aatgactcca tctgggattc agaatacagt gttctcaagt 600
gaagaaggct tggaaaccac cccacctccc tcattggggg ctctctgggc aaacatggtt 660
ttcatgcacc cctcttctg agcttgggtc ctgctgggtg attcttctta tactcgagga 720
gcatccctgg ttgaggagac acccgcaatc ctccacgac tcattggctcc acctgcttct 780
ccccactgcc tgatttcttt tctctctgcc tgatgtctac tgaacagaac ttcccctctc 840
ccatgcaccc actgccagct gagagctgct tcccaatggc ctgcattaaa gcattcgtaa 900
cagccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tcga 954

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<210> 288

<211> 2784

<212> DNA

<213> Homo sapiens

<400> 288

```

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taaaggctta tgtctcttat ttggcgtgat gtgtacctct atggctgtgg ctgcatctgt 180
catgggaggt gttgtgcagg cttccctcag cattcacggc atgtgtggag gaccaatgct 240
gggcttattc tcctgggaa tcgtgttccc ttttgtgaat tggaaaggtg cactaggagg 300
tcttcttact ggaatcacct tgtcattttg ggtggccatt ggggccttca tttacctgc 360
accagcctct aagacatggc ctttgcctct atcaacagac caatgtatca aatcaaatgt 420
gacagcaaca gggcctccag tactatccag cagacctgga atagctgata cctggctact 480
gatctcctac ctttactaca gtgcagtggt ctgcttagga tgcattgttg ctggagtaat 540

```

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| catcagcctc | ataacaggtc | gccaaagagg | tgaggatatt | caaccactgt | taattagacc | 600 |
| agttttgtaat | ttatttttgct | tttgggtctaa | gaagtacaaa | acactatgct | gggtgtggagt | 660 |
| tcagcatgac | agtgggacag | agcaggaaaa | ccttgagaat | ggcagtgccc | ggaaacaggg | 720 |
| ggctgaatct | gtcttacaga | atggactcag | gagagaaagc | ctggtacatg | ttccaggcta | 780 |
| tgatcctaag | gacaaaagct | acaacaatat | ggcatttgag | actaccatt | tctaaggcaa | 840 |
| tacctgtatg | aacgcacaca | cacacgtgca | atacacacac | acacacacac | acacacacac | 900 |
| acaaactcca | catacttctt | gcctacttgt | tagtagatat | gtatagttgc | cattgctaga | 960 |
| agacagggat | gtctggtgcc | tattttctact | tattttataac | tacatgcaa | atgactatct | 1020 |
| ctcgggatat | tcttagaaag | actccaactt | tcacagagaa | aaaccaacct | gctccaaatg | 1080 |
| cccttgacta | cttccttctt | gaataaatta | gggctggatt | tcattacat | tcaagaaagc | 1140 |
| gaagtccttt | tgcttggtgt | catattaaac | ttcagggttt | tcggttttagt | agttttttaa | 1200 |
| ccatcaaaa | atcttggagt | ttagaggcag | aacgggaaac | agaaatatgc | atattttaaca | 1260 |
| ctttctgccc | acaggggata | aaatagagga | atgacatcca | cccccgacct | catacctgac | 1320 |
| atacatgtag | acatacttta | tgccacccat | ctcccatcct | gtagctacaa | ttggcataca | 1380 |
| actactatta | acctcccttc | accaccactg | tcaggctctc | ttccagtcac | tcctcattag | 1440 |
| ctgtcctgac | caaacattaa | aaaaaaaaatt | cagctaaata | cagaagaaga | tggtatgtct | 1500 |
| ggctagtggg | agtgtattata | actaaaaact | ttgtctcctt | tgtgctgtcc | atgcagtatg | 1560 |
| tcttcttctt | ttctatcact | ttacaatgaa | aaattgcctc | agagctcaat | aagaagtctg | 1620 |
| gagccttttt | ccagggtctaa | ggaagagaaa | aaggaatgtc | ctatagaagg | ttgttaggat | 1680 |
| agaattttgt | aaaagaacgt | tgcatgatatt | gtaacagacc | ataggagatt | tcacagcaa | 1740 |
| taggatctct | ctttggagaa | aatacattgt | ccataagact | tgtactctat | tcattcaact | 1800 |
| catgtgagca | agctcaactc | actccacctg | ggttaggtaa | cagaagtggg | gaacttcata | 1860 |
| gttcgtgtct | agaaaaataat | gtttaaagtt | ctggagaatg | aggggtattgc | agattaaaaag | 1920 |
| gcgagttgac | aaatgaagga | gcagtgaag | atttttggaa | gaagtgaaga | agtgaatttc | 1980 |
| tgaaaaggta | aaagaaagaa | ccagtatgtc | acaggggcca | agtcagagga | cagataataa | 2040 |
| gaaacaaagt | tgatctgag | agtcatatat | taggacaggt | gtcagatatt | tatttttggtg | 2100 |
| gccagataaa | agcaaaaggc | ctagaaacag | tgtgttagca | aagtaagaag | aatgggtcca | 2160 |
| aataggcaag | gataaggaaa | tccaaagggt | gtctttaaat | atttctcaaa | agagaaagcc | 2220 |
| ttgaaagaag | catacaatag | agaaaaaata | aattaccagt | atttattatt | agaaaagata | 2280 |
| gaaagacaga | caaatcagtg | gaggaaattaa | aacagagaaa | ctggagttaa | taaaacagag | 2340 |
| cccaatcctt | gccttctctc | cctccactca | aatagaaaaag | gagaatggag | aaagagaaag | 2400 |
| aagggtattag | gctacagttt | ataagagaga | tgagaaaaaa | atacatttgg | gaatagaggg | 2460 |
| aaaggggtcaa | aaggggtcac | atttggagaa | atatctgaaa | atgagaagga | gcagaatttt | 2520 |
| tggaacatt | ttttaagtc | tggaacgct | aattaagctg | ttgatctaag | gatttgcaaa | 2580 |
| ttgagagggtg | caattatttt | ccaaatgatt | tgtgacactc | ttattaatta | gaatatatat | 2640 |
| tctgtgaata | ttgaaatctg | agccaaaact | agttagcttt | attaatatct | tagggaaaga | 2700 |
| agagagaaaag | aaagaggag | ggagagagag | aaagaaagaa | agaaagaaag | aaagaaagaa | 2760 |
| agaaagaaaa | aaaaaaaaaa | aaaa | | | | 2784 |

<210> 289

<211> 943

<212> DNA

<213> Homo sapiens

<400> 289

| | | | | | | |
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| gtattttcaa | gggtctgtcc | tgttatagca | cataacggaa | cttcattcct | tttttaaaag | 60 |
| atataattca | tgtaccagggt | gattcacccc | tttaaagtct | caaattcagt | ggtttttagt | 120 |
| atattttccag | aattgtgcag | ttatcactag | gagcaatttt | agaatgtttt | catcacccgg | 180 |
| aaagaaactc | tatatccata | cgcagcctct | ccccatttct | ccccaacccc | cagccctagg | 240 |
| caaccactca | tctgctttcc | gtgtctgtag | gattgcttgt | tctggaaatg | ttgtatacat | 300 |
| ggaatcatgc | actgtgaact | cttgtgtgtc | acagaaggat | catgtttcca | tggtgcgtct | 360 |
| gtgtcatagc | atgtatcagt | gcagtaaccc | cccttatcca | aggttttact | ttctgcagtt | 420 |
| tcagttaccc | acagtacagt | acagtaagat | attttgagag | agagaccaca | ctcacattac | 480 |
| tttttattgta | atatacgtt | ataattgttc | tatttgatta | ttgttgtaa | tctcttactg | 540 |
| tgcttatttt | agaagttaga | ctttgtcata | agtatgtatg | tataggagaa | aagatagtat | 600 |
| atataagggt | tggtgctatc | cacagtttcg | gacatcccct | gggggtcttg | gaatgtawcc | 660 |
| tgtggataag | cgggaccact | gtacttcatt | cctttttatt | gtcaataaat | attycatkgk | 720 |
| gtggctawgc | catawtttgc | cyattcatte | gtcagttggg | agacatttga | ggtgtttcca | 780 |
| twtttttggt | tttgtgaaga | atcctaggcc | gggcacagtg | gctcactctc | ctgggacctt | 840 |
| gggaggccaa | gacgggacga | tcacttgagc | tcagggaattt | aagaccagcc | tgggcaacat | 900 |
| agtgagactc | tgtctctaca | aaaaaaaaaa | aaaaaaactc | gag | | 943 |

<210> 290
 <211> 887
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (303)..(303)
 <223> n equals a,t,g, or c

<400> 290
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 ggtctgggta gtggttactt gtgtgtattc actttatgct aactcattga actgtacaga 120
 tatggactgt gcccttttct atatgtgtgt aatgcttcaa caaaagtgtc aatagtgatg 180
 catgcacatg ttaaaatttc aaactatatt aaagagtgtg caattaaaag gaagttatcc 240
 tctcactcta aagtccattt tctctctctc agtctatcat tactactagt ttctagtata 300
 tcntttagaa atgkgctgta aaagaacaat gatgtgtatg tctctacagg tatatattta 360
 ttctttttgt aattacaaaa atataaaactc actacatatg ttattctacc acatgctttt 420
 tttcatgtaa cagtatgtct tagacatctt ttcctattat tgcgtggaag ctatcaacct 480
 tattctttgt aatgactcca taaattattc tactgtgaaa acacaccatg ttaaccagt 540
 tctctgttag tgaacattta ggatttttcc agttttttaa tattacagt acatattaaa 600
 cattaacat atcttttgac acatgtcctt gcacacatgt ataggatga tggactttaa 660
 caccctttgg ctgatttctt tagcacataa cgtaaatatc ccatagagtc aaaaccaccc 720
 ttaaaacttc ctcaggaggc tgggtgtggt ggctcacgcc cgtaatccca gcactttagg 780
 aggccgaggt gggcggatca cgaggtcagg agatcgagac catcctggcc aacatggtga 840
 aacctgtct ctactaaaaa taaaaaaaaa aaaaaaaaaa actcgta 887

<210> 291
 <211> 1478
 <212> DNA
 <213> Homo sapiens

<400> 291
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 gaaatggcgc cctccgggag tcttgagtt ccctggcag tcttggtgct gttgctttgg 120
 ggtgctccct ggacgcacgg gcggcggagc aacgttcgcg tcatcacgga cgagaactgg 180
 agagaactgc tgggaaggaga ctggatgata gaattttatg ccccggtggtg cctgctttgt 240
 caaaatcttc aaccggaatg ggaagtttt gctgaatggg gagaagatct tgaggttaat 300
 attgcgaaag tagatgtcac agagcagcca ggactgagtg gacggtttat cataactgct 360
 cttcctacta tttatcattg taaagatggg gaatttaggc gctatcaggg tccaaggact 420
 aagaaggact tcataaactt tataagtgat aaagagtgga agagtattga gcccgtttca 480
 tcatggtttg gtccaggttc tgttctgatg agtagtatgt cagcactctt tcagctatct 540
 atgtggatca ggacttgcca taactacttt attgaagacc ttggattgcc agtgtggga 600
 tcatatactg tttttgcttt agcaactctg ttttccggac tgttattagg actctgtatg 660
 atatttgtgg cagattgcct ttgtccttca aaaaggcgca gaccacagcc gtaccatac 720
 ctttcaaaaa aattattatc agaactctgca caacctttga aaaaagtgga ggaggaacaa 780
 gaggcggatg aagaagatgt ttcagaagaa gaagctgaaa gtaaaagaagg aacaaacaaa 840
 gactttccac agaatgccat aagacaacgc tctctgggtc catcattggc cacagataaa 900
 tctagtttaa attttatagt tatcttaata ttatgatttt gataaaaaca gaagattgat 960
 cattttgttt ggtttgaagt gaactgtgac ttttttgaat attgcaggtt tcagtctaga 1020
 ttgtcattaa attgaagagt ctacattcag aacataaaaag cactagggtat acaagtttga 1080
 aatatgattt aagcacagta tgatggttta aatagttctc taatttttga aaaatcgtgc 1140
 caagcaataa gatttatgta tatttgttta ataataacct atttcaagtc tgagttttga 1200
 aaattttacat ttcccaagta ttgcattatt gaggtattta agaagattat tttagagaaa 1260
 aatatttctc atttgatata atttttctct gtttctactg gtgaaaaaaa gaagatattt 1320
 ccataaatg ggaagtttgc ccattgtctc aagaaatgtg tatttcagtg acaatttcgt 1380
 ggtcttttta gaggtatatt ccaaaatttc cttgtatttt taggttatgc aactaataaa 1440
 aactacctta cattaattaa aaaaaaaaaa aaaaaaaaaa 1478

<210> 292

<211> 1780

<212> DNA

<213> Homo sapiens

<400> 292

| | | | | | | |
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| tatttgggat | tatactgaac | ctatttgtcc | aataacctga | gttttcaaat | aatttttagtt | 60 |
| ctataagtac | tataattata | taaatattaa | tgaattcaga | ttagctgaaa | ggaaaaaaag | 120 |
| tagaagcctg | actacttggg | gctaactact | aaagattttg | gcagaatcaa | tgttggattt | 180 |
| ggctttcctg | tcccttcccc | atgccagccc | cccagagtgt | tctgccttgt | gctgcctccc | 240 |
| ttcacckgga | gtgccacacc | cctctctctg | ccagttcagc | tcttcattct | tcaaggcctg | 300 |
| accttgtctg | acccttgtgc | ctctaaaccc | gtggcccccac | ctctcttggg | cacgagctat | 360 |
| gtcaggtgat | gtttgtgttt | ttggttatgc | ccatctccat | agccagacca | agcactctgg | 420 |
| aagccagggg | tgggtgctta | tttatctgtt | tgccatgcag | aaaatatctt | gcacaaaatt | 480 |
| acctctgtta | aggaatctga | agctgaattt | agtttggctg | agtcaggggt | gggttttttt | 540 |
| taaggggctg | tggggtgaaa | tgttgactgg | aagccaccca | caaacacaca | cctgctgggt | 600 |
| aggaacccgg | ctgtgggtgg | ttctgagctg | tttggcttca | ttgacagttt | ctgattgccc | 660 |
| tgagcaccag | gtctcatctt | gcatctcatc | ctggcctgga | gaacattcag | tttccctcca | 720 |
| acccttcccc | cctttccccc | actcccttgg | aggaactgaa | gttgggggtg | aggagagcca | 780 |
| gatggctgga | gtgggtattt | gaagggtctt | ctgtcacctg | ttcagtgtgg | tctgcccac | 840 |
| ccctgctgac | acaaggtacc | tgaatgttaa | aataatacac | accatctcaa | ctcagaaagc | 900 |
| tggcacattt | ttgaaagccc | aagtgtgggt | aagtgcgtgg | aacaacgata | attcacactg | 960 |
| ctttatgagt | agaaattgtg | agaaatattg | tgccaggcaa | tttgcaaaat | cttgggaagg | 1020 |
| tgtgtgcact | taaccaccca | gcaactactc | ctggatgcat | cctagagaag | tgccatgtga | 1080 |
| acagagaatg | attttaagac | ttcactgaag | tattgttttag | gtagcaagat | tgggaaaagc | 1140 |
| ctgcatttca | tcagcagaag | aatggataaa | taaatgagtt | gtttttggtc | cttggaaagt | 1200 |
| gaatatgaaa | gagttacgtc | tcaacacaga | tagatgaaaa | attatgctga | gaaagtgggt | 1260 |
| gaagctacat | acaaggtacc | cttagtgtaa | agttaagcat | actgtgtacc | tgtgggcacg | 1320 |
| ttacttcaac | ttgtttttca | ctttttctgt | aaaatgggat | agtagtggca | atctcacagg | 1380 |
| gtgattgtgg | gtgggggggt | ggtcaatgaa | gtaatgcatg | taaaatgctt | agaatagtgt | 1440 |
| ctagcatgta | agccttgtgg | acatatagaa | agtgttattg | ttttgcacag | taatctattt | 1500 |
| tctgtggatt | caaataatat | gaaatgagta | taaaatcatg | tattggaacg | atgtgtgcaa | 1560 |
| gtcaccattc | tgcttctcta | aggcaggaga | cctgatggat | ttgggggggg | tacatggggc | 1620 |
| cttcagttgt | gttttctttg | tttttttcta | aaaattgatg | cagaggcatc | acaatgttaa | 1680 |
| gattttaaca | gggtagtgtg | gtgggtactt | tttaactgtt | tgcttaaagt | gtttcaagt | 1740 |
| aaaaatattt | cttaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | | | 1780 |

<210> 293

<211> 1984

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (598)..(598)

<223> n equals a,t,g, or c

<400> 293

| | | | | | | |
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| gccgctctag | aactagtgga | tccccgggc | tgaggaatt | cggcacgagg | cggccctctg | 120 |
| cgctacgcg | gtcacctaca | cagcgatgta | cgtgactctc | gtgttccgcg | tgaagggctc | 180 |
| ccgcctggtc | aaaccctcgc | tctgcctggc | cttgctgtgc | ccggccttcc | tgggtgggct | 240 |
| ggtcgcgctg | gccgagtacc | gaaaccactg | gtcggacgtg | ctggctggct | tcctgacagg | 300 |
| ggcggccatc | gccacctttt | tggtcacctg | cgttgtgcat | aactttcaga | gccggccacc | 360 |
| ctctggccga | aggctctctc | cccagagtgc | ctaccctcgc | ctgcctgggc | ctcagtttcc | 420 |
| acatctgcac | aatgggggtg | accatccctg | ccctgctggc | tgccaggagc | ggctgtgagt | 480 |
| cttcaggcgt | ggatgcagcc | tgggggaagc | catagggcgc | tttcacaggc | ctggccttca | 540 |
| ccatggcggg | agggagaccg | catctgaaga | ggagtttctc | catcatcccc | tgctttgnct | 600 |
| tcgtggagtc | ggtgctgctg | ggcattgkga | tcctccaggg | ccccagccat | gtgttcgtcg | 660 |
| ccccgtgtgc | ccgctcctcg | attgaggtct | gagccgacgc | ccttgccctt | gccccctacc | 720 |
| ctgccagcgc | ccacccccag | ccaggggccc | tcgcttccct | cccctggacc | tggggggcca | 780 |
| ggcgggggtg | gtggacgtgg | ccggaagctg | ctgctgccca | cggccctgct | gcgggacgtg | 840 |

```

tacaccctga gtggactcta tccctcccc ttccaccggg acaacttcag cccttacctg      900
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ccacttcttc cctgccacgc gtgtgtgtgc gtgtgccacg tgagtgcacg agtcccctgc     1020
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gagcagaggg gctccctcac ccggggcagg caaaggcagt gggtagagga ggcactgccc     1860
ccctttcctg cccctcctc atctttaata aagacctggc ttctcatctt taataaagac     1920
ctgtttgtaa cagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1980
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```

<210> 294

<211> 1222

<212> DNA

<213> Homo sapiens

<400> 294

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tttcttcttc catctctgct gtacctgaga agaaatggcc aaacgcacct tctctaactt     180
ggagacattc ctgattttcc tccctgtaat gatgagtgcc atcacagtgg cccttctcag     240
cctcttggtt atcaccagtg ggaccattga aaaccacaaa gatttaggag gccatttttt     300
ttcaaccacc caaagccctc cagccaccca gggctccaca gccgccaac gctccacagc     360
caccagcat tccacagcca ccagagctc cacagccact caaactctc cagtgccttt     420
aaccacagag tctcctctat ttcagaactt cagtggctac catattggtg ttggacgagc     480
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cctgagtggc actcacactc attcaggctc tgcaggatat ttccagtata ccgtgtttgt     780
aattgccagt gaaggattta gcaatcaaac ttttcagcac atggctactg gtatcttgaa     840
gagcattgac ataccacaca caaatatgaa accaggcaaa atcttcatca ataaaggaaa     900
tgtggatggt gtgcagatca acagaagtcc gtattcttac cttcaaaatc cgcagtcaga     960
gagagcaagg tattcttcaa atacagacaa ggaaatgata gttttgaaaa tggtagattt    1020
gaatggagat gacttgggcc ttatcagttt ttcattcagc aagtctgcac tagggaccta    1080
ctatgagcca cgcaatactt ctttggaaat atgtattccc tggccttgaa ataaggaatc    1140
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aaaaaaaaa aaaaaaaagg gc

```

<210> 295

<211> 1815

<212> DNA

<213> Homo sapiens

<400> 295

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cacgcgtccg cggacgctgg gctcaatctc ctgaccttgt gatctgcccg cctcggcctc      60
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ggtaaaaact ttgatcttt gcttgagttt tttgtttttt tctcttttac actctccctg     180
ttccctgatt aaatgaaggc caggcttgcc tagttccagg gaaaaggccc aggggtgccta     240
gagcaagggt gatgggactt tgttcgcaga tgggccttga gagagcgacc cctcgtcctc     300
aatgccccg aggaagggac ggacttcttt atctttacca tgggtattct gccttactgc     360

```

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| tttggcctgt | ggcgtttctt | cacttgcttt | tcctcathtt | gcttggaaatg | tgctttgcct | 420 |
| gttgcatacc | caactcgtct | gcccccttgc | acactccatg | gctggcctaa | aagcccagtc | 480 |
| tgctgtcctg | tgcccttttag | acttccactg | taggattatg | tttccacact | ccctgtggac | 540 |
| tgtgccactg | gagctctctg | cagacaggga | ctgtgtcagg | ttgacctcca | tccttcagac | 600 |
| cagcccagtg | cctggcaggt | agaggaaaga | gaagctgagg | aaggacttgc | tgacaaagtg | 660 |
| gatgccagga | gctctgggtct | tcccttcttg | aatctgctac | cttatgatgg | gagggacaca | 720 |
| gggctgtgct | ggatttgtgc | acgatgcttt | ggacagccca | tgggagaggg | ccaggaggaa | 780 |
| ggaaaccag | actgagtggg | tagcaggctg | gatgggggca | ttgacagtgg | gggaagcatt | 840 |
| aaaggccatt | tatagccttc | acaggctctg | gtaatgggct | cttacacggg | ttggtggcgg | 900 |
| aaggacacag | gtggacctgg | gctgggtggc | actcctgggc | tgctcttggc | cctggcatct | 960 |
| gagacctgtt | ggccaaaggc | tttgatgtgg | ctctgggtatt | ttttcttttt | tttgagaatg | 1020 |
| gaactttttt | ttttttaatg | aaatgctctt | ttgaataggc | aatacagtca | cgtttctaaa | 1080 |
| atgaaaaatat | attaaaatat | attttaagaa | attttgcccc | tactcctga | tctcatctct | 1140 |
| gtcctccctc | ctccctggta | accacctgta | gcagtttgaa | tacccttcta | gtttttctta | 1200 |
| atgcaagtac | agcaaacaca | aattgtgtat | tattatttct | cccttttcag | taaataaaag | 1260 |
| atagcattct | gtgtgtactg | ttcttcatct | tgtgcttttt | ttaacttatt | gtagagattt | 1320 |
| ttcatatatca | gtgcatggag | aatggttgtc | attctctttc | agctgtgttg | cactgtgaag | 1380 |
| ttgtccctgt | ttgaatactc | acccctgagg | aaaggcacct | ggctgtttcc | agctgttttc | 1440 |
| atgacatgcc | ggcgacagtt | gtctcacgtg | cacatcgttt | cccacattgc | agtggtcctg | 1500 |
| cagggtggca | tcccgacagg | acattgctga | gtcaaagagg | aaacacagtt | gtaattttga | 1560 |
| cagattttgc | ccagttgccc | tctacagggc | ttgttccatg | ttgactccc | actggcgggtg | 1620 |
| ttgatgcctg | attccccact | gactcgtcaa | cacaaggtgt | agtcaaatgc | ttggagtctt | 1680 |
| gccagcctga | ccaacatgga | gaaaccctac | tgaggataca | aagttagcca | ggcatgggtg | 1740 |
| tgcatgcctg | tagtcccagc | tgctcaggag | cctggcaaca | agagcaaaac | tccagctcaa | 1800 |
| aaaaaaaaaa | aaaaa | | | | | 1815 |

<210> 296

<211> 1346

<212> DNA

<213> Homo sapiens

<400> 296

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| cgctgggggc | gcgattccgc | acgtccctta | cccgtttcac | tagtcccggc | attcttcgct | 60 |
| gttttcctaa | ctcgcccgct | tgactagcgc | cctggaacag | ccattttgggt | cgtggagtgc | 120 |
| gagcacggcc | ggccaatcgc | cgagtcagag | ggccaggagg | ggcgcgccca | ttcgccgccc | 180 |
| ggcccttgc | ccgtggctgg | ttttctccgc | ggcgccctcg | ggcggaacct | ggagataatg | 240 |
| ggcagcacct | ggggggagccc | tggctgggtg | cggtctgcctc | tttgcttgac | gggcttagtg | 300 |
| ctctcgctct | acgcgctgca | cgtgaaggcg | gcgcgcgccc | gggaccggga | ttaccgcgcg | 360 |
| ctctgcgacg | tgggcaccgc | catcagctgt | tcgcgcgtct | tctcctccag | gtggggcagg | 420 |
| ggtttcgggc | tgggtggagca | tgtgctggga | caggacagca | tcctcaatca | atccaacagc | 480 |
| atattcggtt | gcatcttcta | cacactacag | ctattgttag | gttgcttgcg | gacacgctgg | 540 |
| gcctctgtcc | tgatgctgct | gagctccctg | gtgtctctcg | ctggttctgt | ctacctggcc | 600 |
| tggatcctgt | tcttcgtgct | ctatgatttc | tgcattgttt | gtatcaccac | ctatgctatc | 660 |
| aacgtgagcc | tgatgtggct | cagtttccgg | aagggtccaa | aaccccaggg | caaggctaag | 720 |
| aggcactgag | ccctcaaccc | aagccaggct | gacctcatct | gctttgcttt | ggcatgtgag | 780 |
| cccttgcctaa | gggggcatat | ctgggtccct | agaaggccct | agatgtgggg | cttctagatt | 840 |
| acccctcctc | cctggccatac | ccacacatga | caatggacca | aatgtgccac | acgctcgctc | 900 |
| tttttttacac | ccagtgcctc | tgactctgtc | cccatgggct | ggctctccaa | gctctttcca | 960 |
| ttgcccaggg | agggaagggt | ctgagcaata | aagtttctta | gatcaatcag | ccaagtctga | 1020 |
| accatgtgtc | tgccatggac | tgtgggtgctg | ggcctccctc | gggtgtgcct | tctctggagc | 1080 |
| tgggaagggt | gagtcagagg | gagagtggag | ggcctgctgg | gaagggtggt | tatgggtagt | 1140 |
| ctcatctcca | gtgtgtggag | tcagcaaggc | ctggggcacc | attggccccc | accccaaggga | 1200 |
| aacaggctgg | cagctcgctc | ctgctgccca | caggagccag | gcctactcta | ctgggaaggc | 1260 |
| tgagcacaca | cctggaaggg | caggctgccc | ttctggatat | gtaaatgctt | gctgggaaga | 1320 |
| tcttacttga | gtttaacttt | aacccc | | | | 1346 |

<210> 297

<211> 1262

<212> DNA

<213> Homo sapiens

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<400> 297
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accctagaag aatgattgga cagatgtgag ccactctggag cagaggggca ctaacccagg      180
ctgacgccaa gaatgaagtg gccactgca gccctggcga gcaggcttct tggatggaca      240
gtgctgagac ccccatatcc cagagtcccc agcctccctc aggttactct gcacccaca      300
gatggtttga tggctgtgct gtatactgga ggggagggca ggactctggg agaacagcac      360
ttctttcatg agacctttgt tactcggtgg ttactgggtc ctgtgcctgt ccgttttggg      420
gcatgcagcc ctctatcatt tttggctccg agaagagggc aaggggcccc cgcagggtarc      480
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ggaccacctt cccacagta tgcactcagc cccacagaac ccaccagtct ttctgggaac      660
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gcttccttgg gcaagagctg tctgtcctcc ctgcaggagg ctgagtgtga agagtatcat      1200
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cg                                                                1262

<210> 298
<211> 989
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (955)..(955)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (979)..(979)
<223> n equals a,t,g, or c

<400> 298
acgcgtccgc tctggatccc tcgttccctg gtgctgggtg aaatgaccat cacctcgttt      60
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gcagtgtctg ggacgctgag ggacaccccg atgatgggtc acacaggccc ctgctgctgc      180
tgctgcccct gctgtccacg gctgctgctc accaggaaga agcttcagct gctgatgttg      240
ggccctttcc aatacgccct cttgaagata acgctgacct tgggtggcct gtttctcatc      300
cccgacggca tctatgacct agcagacatt tctgagggga gcacagctct atggatcaac      360
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gccaggctac acctgggtga gcagaacatg ggagccaaat ttgctctgtt ccaggttctc      480
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gcttgcttgc ctccctattc ctctaaaacc aggtctcaag tgatgaattg ccacctcctc      600
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aagggttggg atgaaacttt ctcttctcca gacctggact tgaactcaaa gcctaagggtg      720
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gactctacag atgaaggtga acaatgttag gataaaattg ctttggatct tgcctggaag      900
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                                                989

<210> 299
<211> 632
<212> DNA

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<213> Homo sapiens

<400> 299

| | | | | | | |
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| aattcccg | tcgaccac | cgcccg | ggtctcat | accagaaatt | ccggaaccaa | 60 |
| ttcctctc | tttccatg | ccagagct | gtgcagtt | tccagtacta | ctaccagagc | 120 |
| ggctgcct | accgcctg | ggcgctgg | gagcggca | ccatggacct | cactgtggag | 180 |
| ggcttccag | cctggatgt | gcggggcct | accttcct | tgccctttct | tttctttgga | 240 |
| cacttctgg | agcttttta | cgcgctga | ttgttcaac | tggcccagga | ccctcagtgc | 300 |
| aaggagtgg | aggtgctt | gtgcggct | cccttcct | tccttttct | cggaatttc | 360 |
| ttcaccacc | tgagggtt | gcaccaca | tttcacagt | agcggcac | gagcaaga | 420 |
| gattgagg | gggccttc | ctgccggc | agaggggt | ctgtcctgt | gtgtgtggga | 480 |
| ggggatgg | ggcgccct | gagtgctg | gtatcaggg | gtctcttct | ttctccctg | 540 |
| ggttttat | gcgctgtg | ccctgaag | agacctgg | ccagtgcct | caataaag | 600 |
| agccccag | gtggaaaa | aaaaaaaa | aa | | | 632 |

<210> 300

<211> 2572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2527)..(2527)

<223> n equals a,t,g, or c

<400> 300

| | | | | | | |
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| tttgcttc | agtcacct | aatgcggg | gccccgtc | atcccgat | ctccttgta | 120 |
| catgggca | cttgctgc | gcaccacc | gtgcctgg | tactacaaga | acattcac | 180 |
| catcatcc | gacagaag | gcccggag | ctctaatct | ggaacaata | gaaagatg | 240 |
| gagctctg | tgcccttg | ctctaatct | ggccacac | agaatcagt | ggcctatt | 300 |
| caacctct | gtttcccg | accttggt | gagttctg | gccacagag | cagtggcg | 360 |
| tttgacag | acataccct | tggtcacat | ccatacgg | ggttgacga | aatccgtg | 420 |
| gtgtatct | ctttcgaca | gaataaccc | agcaacaa | tggtgagca | gagcaaca | 480 |
| gtcacggc | cccatatca | gaagttcac | ttcgtctg | tggtctgt | actcacgt | 540 |
| tgttctgt | tgttttgg | acccaacgt | tctgagaaa | tcttgatag | catcatcg | 600 |
| gtggactt | cctttgcag | actctgtgt | gttccttg | ggatcttct | cttcttcca | 660 |
| gttcacgt | cagtgagg | gcattctac | gggtggct | tgacactga | gaaaacct | 720 |
| gtccttgcc | ccagctct | gctgcggat | atcgctct | tcgccagcc | cgtggctca | 780 |
| ccctacct | gggtgcac | tgcgacct | ggcgtggg | ccctcctgg | gggctttg | 840 |
| ggagatcca | ccatggct | catcgctgc | tgctatgt | accggaag | gaaaaaga | 900 |
| atggagaat | agtcggcc | ggaggggg | gactctgc | tgacagac | gcctccga | 960 |
| gaggaggt | cagacatcg | ggaaatgag | gaggagaat | aataaggca | gggacgcc | 1020 |
| gggcactg | gggacagt | gtcaggat | cacttcgg | tcattctct | cctctccca | 1080 |
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| tttcgtgt | attctctag | atactgggt | tgctcacat | gacgggggg | cctagtga | 1200 |
| ggtctttac | gttgctat | aaaaacaa | gaaacaact | acttcata | cctgcctca | 1260 |
| gaaaaccca | aagacacag | tgctcacgg | ttgacgtt | gtcctcct | cctggaca | 1320 |
| ctcctcttg | aaccaaagg | ctgcagct | gccatcgcg | ctcggtcac | ctgcacag | 1380 |
| ggccacag | tctcctgt | cccttcac | ctcttaaga | tcaacaggt | aaaactcgg | 1440 |
| ttcctttgat | ttgcttcca | gtcacatgg | cgtacaaag | gatggagcc | cgggtggc | 1500 |
| ttaaatttc | cttcggcc | ggagttcga | accatctac | ccacacatg | aggaggcgg | 1560 |
| tggcacgtg | cagcccgag | tccccgttc | cactgagg | cggagacct | tgaccacag | 1620 |
| aggctgac | atggacaga | tctcccgtag | aaaggttg | tttgaaatg | cccgggggc | 1680 |
| gcaaaactg | atggttga | gatagcatt | cactctgc | tctcctag | ctgagcaag | 1740 |
| tgtcagtt | cacccccc | gtgtatata | atgagcta | ttttttaa | tgtcacaaa | 1800 |
| gcgcattct | agattccag | ccctgccga | tgacttttc | tgaaggctt | cttttcctc | 1860 |
| gcctttcct | aaggtcgc | tagagcgag | cacatggag | atcctaact | tgcattttg | 1920 |
| tttttacag | gaactgaag | tttaagtct | atccagcat | ctaagtcag | gttgctgtg | 1980 |
| ggtaacttt | gaagtagata | tattacctg | ttctgctat | cttagtcata | actctcggt | 2040 |
| acaggtaatt | gagaatgtac | tacgggtact | ccctccaca | ccatacgata | aagcaagaca | 2100 |

| | |
|--|------|
| ttttataacg ataccagagt cactatgtgg tcctccctga aataacgcat tcgaaatcca | 2160 |
| tgcagtgcag tatatttttc taagtttttg aaagcaggtt ttttccttta aaaaaattat | 2220 |
| agacacgggt cactaaattg atttagtcag aattccctaga ctgaaagaac ctaaacaata | 2280 |
| aaatatttta aagatataaa tatatgctgt atatgttatg taatttattt taggctataa | 2340 |
| tacatttcct attttcgcat tttcaataaa atgtctctaa tacaatacgg tgattgcttg | 2400 |
| tgtgctcaac atacctgcag ttgaaacgta ttgtatcaat gaacattgta ccttattggc | 2460 |
| agcagtttta taaagtcctg catttgcat tgaatgtaag gctcagtaaa tgacagaact | 2520 |
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<210> 301

<211> 1488

<212> DNA

<213> Homo sapiens

<400> 301

| | |
|--|------|
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| ctgaggggtcc ttttctcccg ctcccaggag gaacgagaat gaatatgact caagcccggg | 120 |
| ttctggtggc tgcagtgggt gggttgggtg ctgtcctgct ctacgcctcc atccacaaga | 180 |
| ttgaggaggg ccatctggct gtgtactaca ggggaggagc tttactaact agccccagt | 240 |
| gaccaggcta tcatatcatg ttgcctttca ttactacgtt cagatctgtg cagacaacac | 300 |
| tacaaactga tgaagttaaa aatgtgcctt gtggaacaag tgggtggggc atgatctata | 360 |
| ttgaccgaat agaagtgggt aatatgttgg ctcccttatgc agtgtttgat atcgtgagga | 420 |
| actatactgc agattatgac aagaccttaa tcttcaataa aatccaccat gagctgaacc | 480 |
| agttctgcag tgcccacaca cttcaggaag ttacattga attgtttgat caaatagatg | 540 |
| aaaacctgaa gcaagctctg cagaaagact taaacctcat ggccccaggt ctactatac | 600 |
| aggctgtgctg tgttacaaaa cccaaaatcc cagaagccat aagaagaaat tttgagttaa | 660 |
| tggaggctga gaagacaaaa ctcccttatag ctgcacagaa acaaaagggt gtggaaaaag | 720 |
| aagctgagac agagaggaaa aaggcagtta tagaagcaga gaagattgca caagtggcaa | 780 |
| aaattcggtt tcagcagaaa gtgatggaaa aagaactga aaagcgcatt tctgaaatcg | 840 |
| aagatgctgc attcctggcc cgagagaaag cgaaagcaga tgctgaatat tatgctgcac | 900 |
| acaaatatgc cacctcaaac aagcacaagt tgaccccga atatctggag ctcaaaaagt | 960 |
| accaggccat tgcttctaac agtaagatct attttggcag caacatccct aacatgttcg | 1020 |
| tggactcctc atgtgctttt aaatatcag atattaggac tgggaagagaa agctcactcc | 1080 |
| cctctaagga ggctcttgaa ccctctggag agaacgtcat ccaaaacaaa gagagcacag | 1140 |
| gttgatgcaa gaggtggaaa tgttctccat atcaagatgt ggccccagggt gttagtggg | 1200 |
| aacaatcatt atacggactc ttcagattta cagagaactt acacttcacg tgttccacct | 1260 |
| ctcctgcgat agtctgggtt gctccactga ttggaggata gagccagctg tctgacacac | 1320 |
| aaatggtcct ttccagccaca gtcttatcaa gtatcctata tgtattcctt tctaaactgc | 1380 |
| tactcatgaa tgaggaaagt ctgatgctaa gatactgcct gcactggaat gttaaactct | 1440 |
| aaatatataa caagctgtgt tttcctaagc tgaaaaaaa aaaaaaaa | 1488 |

<210> 302

<211> 609

<212> DNA

<213> Homo sapiens

<400> 302

| | |
|--|-----|
| ccacgcgtcc ggggacccca gacatgagga ggctcctcct ggtcaccagc ctggtgggtg | 60 |
| tgtgtgtgtg ggaggcaggt gcagtcccag caccacaagg cctatcaag atgcaagtca | 120 |
| aacactggcc ctccagagcag gacccagaga aggcctgggg cgcccggtgt gtggagcctc | 180 |
| cggagaagga cgaccagctg gtggtgctgt tccctgtcca gaagccgaaa ctcttgacca | 240 |
| ccgaggagaa gccacgaggt cagggcaggg gccccatcct tccaggcacc aaggcctgga | 300 |
| tggagaccga ggacacctg ggccgtgtcc tgagtccca gcccgaccat gacagcctgt | 360 |
| accacctcct gcctgaggag gaccaggcgg aggagaggcc ccggttgtgg gtgatgccaa | 420 |
| atcaccaggt gctcctggga ccggaggaag accaagacca catctaccac cccagtagg | 480 |
| gctccagggg ccatcactgc ccccgcctg tcccaaggcc caggctgttg ggactgggac | 540 |
| cctccctacc ctgccccagc tagacaaata aaccccagca ggccgggaaa aaaaaaaaaa | 600 |
| aaaaaaaaa | 609 |

<210> 303

<211> 612

<212> DNA

<213> Homo sapiens

<400> 303

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|-----|
| ggtcgaccca | cgcgccgag | catttgctctg | tataatttta | gttattgaat | taaaatcttt | 60 |
| tgggacccca | acaggatgag | atcattggcc | agctggcttc | ctcccacctg | cacctggact | 120 |
| gaaattcccc | gtggcattag | aggtgtttcg | taagggtgctc | cctgctgtct | gtcctacaga | 180 |
| ttgcagtggc | tctgctggaa | aagaacggaa | ttctatgcaa | gttgctgtgtg | tcataaggt | 240 |
| ctctgcacag | tgggtgtgtt | tctttgtcgt | cttttctcca | ctctgctctt | ctgtgaaatg | 300 |
| tgccagcagt | ggacagaaca | ggggcagagg | tgatcagtga | ccattgcaca | gaatatcagt | 360 |
| aagtgttgta | aggatatatag | tcttggccaa | caaattgtaa | gcaaaatacc | aggaacttcc | 420 |
| taatctagta | ggaatttttg | tatgcttttg | acaaacatct | gacccactg | acactgaaag | 480 |
| tccttagaag | gagaattgct | tgaaccggga | aggtggcggt | tgacgtgagc | caagatggcg | 540 |
| ctactgcact | ccagcctggg | caataggaat | gaaactccgt | caccaaaaaa | aaaaaaaaaa | 600 |
| aaggggcgcc | gc | | | | | 612 |

<210> 304

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (25)..(25)

<223> n equals a,t,g, or c

<400> 304

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| gaattcgcca | cgagcgggac | gcgngtgaag | atagcctgcg | gagtgtccgg | gcggaacacg | 60 |
| gttgacgac | tcccagtaga | ccaggagctc | cgggaggcag | ggccggcccc | acgtcctctg | 120 |
| cgcaccaccc | tgagttggat | cctctgtgcg | ccaccctga | gttggatcca | gggctagctg | 180 |
| ctgttgacct | ccccactccc | acgtgcccct | cctgcctgca | gccatgacgc | ccctgctcac | 240 |
| cctgatcctg | gtggtcctca | tgggcttacc | tctggcccag | gccttggact | gccacgtgtg | 300 |
| tgcctacaac | ggagacaact | gcttcaaccc | catgcgctgc | ccggctatgg | ttgcctactg | 360 |
| catgaccacg | cgcacctact | acacccccac | caggatgaag | gtcagtaagt | cctgctgtcc | 420 |
| ccgtgcttc | gagactgtgt | atgatggcta | ctccaagcac | gcgtccacca | cctcctgtctg | 480 |
| ccagtacgac | ctctgcaacg | gcaccggcct | tgccaccccc | gccaccctgg | ccctggcccc | 540 |
| catectctctg | gccaccctct | gggtctcct | ctaaagcccc | cgaggcagac | ccactcaaga | 600 |
| acaaagctct | cga | | | | | 613 |

<210> 305

<211> 1015

<212> DNA

<213> Homo sapiens

<400> 305

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|-----|
| ggcacgagca | aaaggggctt | ctattgtatt | ggtcatatctt | tatttttggtt | taaaaaatctt | 60 |
| tagagtaaat | gtggcaaaat | gttaatgctt | gttaaatctg | agtggagagt | acatttgtgt | 120 |
| taagtgtgct | gctatgcagg | gtgagtgaat | tactcaataa | ctaaataatt | gtgacataat | 180 |
| atattttatt | atgcttccct | gttatgatct | acacataaaa | ttactggagc | attattgctt | 240 |
| aacttcttgt | aaaaaagtcc | tgcaattgta | gtgttattaa | gaaagtaata | ttgattttgta | 300 |
| tagtgacaga | ggattttttc | agtgtcactt | tgccagcaga | gatcttcatg | gtgggcattg | 360 |
| ccccgtccca | tgtctcactt | ggccctgggc | ttgccccact | aggtaccctg | cccacctggc | 420 |
| caggcaggct | gtgcttggct | tgagctcttg | cccagatcct | gcacttgctc | tgccggtgag | 480 |
| ccaggcatgc | catgacctac | ttccaccttg | ggagccggcg | tctggatgag | gggaatgctg | 540 |
| tgacacttga | acagaggtgg | gcatgtgacc | ccaaagcccc | aaaggggggtg | ttacagcatg | 600 |
| ctaacagttc | tttcagtctc | acatccacag | cccaacaaat | ggaggtgtgt | ggtgcccaga | 660 |
| ggtcccttct | cccattgttt | ggcaagcagg | aggggtgtgc | tacagggtta | cagcttttgt | 720 |
| tgacattgcc | gtttgtggg | tcctgagttc | ttttcccatg | tccaagaata | aggtttgtgt | 780 |
| gacagctagc | ggttgagtga | ggcaaagagt | tttactcagt | aacaaaacag | ctctcagcag | 840 |
| agaaggaagc | ctgagttgga | cagcaccctt | acctgaagtt | gggtagtctt | cccaccacct | 900 |

aaaagtgggt agcccaaagt gtggctgagc ctggggcttt tatatgctca gaatgggagt 960
 gtatgtgcta attggtttgt gagtatgcaa aaaaagctaa aaaaaaaaaa aaaaa 1015

<210> 306
 <211> 1022
 <212> DNA
 <213> Homo sapiens

<400> 306
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 acacactgat gctcaaatcc taagggtgcca agctctaggc cctggaggct ggtagaacag 180
 gatctatgcc tggaaatcctg gcagggatcc ctgtcaagga cttgtgttta agcctgtctc 240
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 gacagaaggc ctcaccaagg attgtggaca tagggtaggc cctggtacca cgggtttcag 360
 gctgttatca cttcccttgt aggaacatag ccagaagcag atgagccagg gtagagggtc 420
 ggcccctcct ctcatcttcc cttcagtctt aaattgtctc cagcgatggg aagaggccag 480
 ggactgtaac cttgtgtctg tgtattctct gagcctctgc tcaactctcag ggccaagcag 540
 ctcccaagcc ggggccctct cttggccaaa atctgaggag cagtctaggt tacaggcttt 600
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 gaaacaagct agaacaaccc tggcccagaa gactgtgcac tccagcaaga tccagggatg 720
 atagccttgc agggccactg ggagtttgtg cccaagcttc tccctcttct ctcccaggg 780
 ggcactggga ctgggtccctg cctcctcctc tagcctgggc ctccccaga ggtattaaag 840
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 tcccagggg cccccagtca cgtggtgaag cctagcactc atgcagctct tagggaacca 960
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 cg 1022

<210> 307
 <211> 1766
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1750)..(1750)
 <223> n equals a,t,g, or c

<400> 307
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 cccgaattcc ttcttgacc aggaaaagccg gagacgaaga ttcaccattg cagactcgga 180
 tcagttgcct gggactcgg tggaaaccaa cattctgccc acaaaaatga gagagaaaac 240
 accatcttat ggcaagccac ggcctttgtc catgcctgct tggcaggaaa ggggaggatg 300
 tgtggaccct tttgccagac ctcgaggta tggcaggaaa ggggaggatg ccctttgccg 360
 gtatttcagt aacgagcggg ttcctccgat cattgaagag agctcctctc ccccataccg 420
 gttctccaga cccacgaccg agcggcatct ggtccggggt gcggactaca tccgaggaag 480
 caggtgctac atcaactcag atctccacag cagcgcacg attccattcc aggaggaagg 540
 gacaaaaaag aaatctggct cctcagctac gagtccctgt ccacagaacc gtccctcctg 600
 gtcagctggg ttacgcgcct caaactgttg actcactgag agggaccctg ctcaggccac 660
 ctgcctggct cctgscacca gtgccttgc tttacagtgg acagcctctt ctcgtttcag 720


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cctcagtatt atgtagggac cttatgcaat ttctttttct tttgaaaagt tatctactgc 780
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atgtgaagac acgcgctaga aatcgagtc ctggccagag acgttatggt cattgtgagg 960
gactgggtggc attgttcctt tttgaggggc tggggggact caaattgggt gctgttttca 1020
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gaacacattt tgatagggct tttttcacac aaagaagttt atggttattt gtgtgggggtg 1320
gtgttggtat atattattgt ctttaaggga aaagaagcta taagattcgc tgacagccaa 1380
agtatcattt agaaaagtga agcaacaaga tttaggttga tgaaagatac atgagtttgc 1440
attttgacct gttcagtgtc tgtcttcag caccgtgtgt acacttcttc aaaattgtac 1500
acagtttgtc aattagaaat atcttggaag gcctcatggt cactaatttt caactagcat 1560
caggtatttt gaaaacgtgt gtctggatat taactcttgt ttaaactgaa tgtatgatat 1620
tttgttagaa tggaaaagta ctatcttgtt aatttaagta ttttaaatat agttgtatat 1680
ttttcttaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgctctagag gatcccgca 1740
ggggccccan attacgcgtg agcggt 1766

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<210> 308

<211> 815

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (406)..(406)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (794)..(794)

<223> n equals a,t,g, or c

<400> 308

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tgtcttcttc ttcttcttct tcttcttctt cttcttcttt ggtccttaag tgaaataaag 180
actctaaaaac taatttgtat attatcagcc agagatgcgg atggcagtcg agccaaatcg 240
catggctttc agatcaggta ttctgcacat tcattccaag gtcatagatt tttaaaagga 300
cctggatttg aagagatggc aaatgrtgag ccatcagaaa acttaatttg gaaaacatgt 360
atgtagccag tgtggatatt gtggcctctc tcaagacaca ttgacnactg tagacytcat 420
tcagtcaggt gtgagtattt tggagtaggt tggatgtaga ttttgttttt atcgttgatt 480
tgtaccgaca gaaatagaca tttcatcatg taaaattcct gttattcttg aaaaacctat 540
tgttttgatc cttcttgttt tcctgacttg gaagtatcct ttcaaaaaaa ctcttaagat 600
atctaggtct aaaaagcact tcatgagatg ctaaagctga cccactgggt gaaaatgttg 660
accctatcct gttattttaa tgtgaacatt tattgtacat tcagttaggt atagtgttaa 720
tagtcttgtg ctatgcagca ggtgtaaaaa ttaataaata ttttttttaa taaaaaaaaa 780
aaaaaaaaa attnctgcgg tccgcaaggg aattc 815

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<210> 309

<211> 633

<212> DNA

<213> Homo sapiens

<400> 309

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tgctgtgtga gccaacacag tagctcctct acattacaag gatatgatta ttcttaaaact 120
tgtcgtatgat ctaggaaaag taaaaatcac taagtacgga tttctcactt ttatggacac 180
ttggagcaat ccactggagg aacacaaatca ccaaagtctt gttccattgg aaaaggcgca 240
ggtgcccttc ttgtttattg ttggcatgga tgatcaaagc tggaagagtg aattctatgc 300

```

| | |
|--|-----|
| tcagatagcc tctgaaaggc tacaagctca tgggaaagaa agaccccaga taatctgtta | 360 |
| cccagaaact ggtcactgta ttgacccacc ttattttcct ctttctagag cttctgtgca | 420 |
| cgtctgttttg ggtgaggcaa tattctatgg aggtgagcca aaggctcact caaaggcaca | 480 |
| ggtagatgcc tggcagcaaa ttcaaacttt cttccataaa catctcaatg gtaaaaaatc | 540 |
| tgtaagcac agcaaaatat aacattgtag ccacagacca gataaccatta ataaaaatcc | 600 |
| tattcataaa aaaaaaaaaa aaaaaaactc gta | 633 |

<210> 310

<211> 989

<212> DNA

<213> Homo sapiens

<400> 310

| | |
|--|-----|
| ggcagcagca tgccagtgcc tactctgtgc ctgctgtggg ccctggcaat ggtgacccgg | 60 |
| cctgcctcag cgcccccat gggcggccca gaactggcac agcatgagga gctgaccctg | 120 |
| ctcttccacg ggaccctgca gctgggccag gccctcaacg gtgtgtacag gaccacggag | 180 |
| ggacggctga caaaggccag gaacagcctg ggtctctatg gccgcacaat agaactcctg | 240 |
| gggcaggagg tcagccgggg ccgggatgca gccaggaac ttccggcaag cctgttggag | 300 |
| actcagatgg agggagatat tctgcagctg caggcagagg ccacagctga ggtgctgggg | 360 |
| gaggtggccc aggcacagaa ggtgctacgg gacagcgtgc agcggctaga agtccagctg | 420 |
| aggagcgcct ggctgggccc tgcctaccga gaatttgagg tcttaaaggc tcacgctgac | 480 |
| aagcagagcc acatcctatg ggccctcaca ggccacgtgc agcggcagag gcgggagatg | 540 |
| gtggcacagc agcatcggt cgcacagatc caggagaggt gacgctggca ggggttggc | 600 |
| aggcagggca gttggatggg gggcgcacag ggcagctgga aaggggcccc ctcacctggg | 660 |
| ctgagccaca tctccctccc cagactccac acagcggcgc tccagcctg aatctgcctg | 720 |
| gatggaactg aggaccaatc atgctgcaag gaacacttcc acgccccgtg aggccctgt | 780 |
| gcagggagga gctgcctgtt cactgggatc agccagggcg ccgggccccca cttctgagca | 840 |
| cagagcagag acagacgcag gcggggacaa aggcagagga tgtagcccca ttggggaggg | 900 |
| gtggaggaag gacatgtacc ctttcatgcc tacacacccc tcattaaagc agagtcgtgg | 960 |
| catctcaaaa aaaaaaaaaa aaaaaaaaaa | 989 |

<210> 311

<211> 1524

<212> DNA

<213> Homo sapiens

<400> 311

| | |
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| ggcagcagaa ggagctgggg gatgtgcagg gccacggcag ggtggtcacc agcagagccg | 60 |
| cccctccacc tgtggatgaa gagccagagt cctctgaggt cgtatgctgt ggtcgggtggc | 120 |
| ctggtgtctg tgtagcaga acatctccaa cccccccaga gtcggcaacc accgttaagt | 180 |
| cacttatcaa gtcatttgac ttgggacgcc caggtggagc tggacagaat atttctgtcc | 240 |
| ataagacccc cagaagtccc ctaagtggga taccagttag gactgctcca gcagctgctg | 300 |
| tctctccaat gcagaggcat tcgacttaca gcagtgtgcg gccagccagc agaggggtga | 360 |
| ctcaacgctt ggaccttcct gaccttcccc tctcagatat tctaaaggga aggactgaga | 420 |
| ccctgaagcc agacccccac ctccgcaaga gtccctcact agagtcaact agcagacccc | 480 |
| cgtctctggg ctttggggac acaagactgc tgagtgttc caccgggca tggaaaccac | 540 |
| aaagcaaaact cagtgtggaa agaaaagacc ctctggcggc cttggccccg gaatacgggtg | 600 |
| gttccaagcg caatgctcta ctgaaatggt gccagaagaa gacacaaggt tatgcgaaga | 660 |
| ggaatctctt gttggcattt gaagcggctg aaagtgtagg catcaaacc agcctggaac | 720 |
| tcagcgagat gctgtacaca gaccggcccc actggcagag tgtgatgcag tacgtggccc | 780 |
| aaatctacaa gtactttgag acgtaaccct ggagggcctg gggcagccac cattgccacc | 840 |
| tactgcagct ttctctggaa gcgcctgatt actgtccact gaccctgtc tgcccaccac | 900 |
| ccagctgcct agacttcaaa gacaggctca atccaagtgg accaacaccc aaataagaaa | 960 |
| cagagtgggt cccacgatgt acctgtctga aatgcaaatg cagctggact gtaaatggg | 1020 |
| gactctttga tctctgtgg gatgttcta aagagggcag cctccctcct tccagaccaa | 1080 |
| gacccacac ccaggttgt tttgctgatt atattgggtg gctgaacgaa cacattatct | 1140 |
| gcagaaatc agacaaagaa catctccaaa tcagtctttt ggtgtgtgtt gtaaaaaata | 1200 |
| tcccggcttt gcctttatga aacctttgcc cttggctggg tgtggtagct cgtggctgta | 1260 |
| atcccagcac tttaggaagc caaggcagta ggcctgtgtg agccaggag ttcgaggctg | 1320 |
| cagtgcagta tgagcatacc actgcactcc agcctgtgtg aaagagccag accctgtctc | 1380 |
| aaaaaaatga taaaacccaa aactttggcc ttgtgaaccc tcccttcccc cctccccccc | 1440 |

ccccaaaaaa aacaacaaaa cacaaaaaat aaacatttgt tccagggcaa cctggaaaaa 1500
 aaaaaaaaaa aaaaaaaaaa aaaa 1524

<210> 312
 <211> 770
 <212> DNA
 <213> Homo sapiens

<400> 312
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 tggatttcta tgccacacta cccgtaactt tgaaaaataa ctttaggctg cagttttcag 180
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 cagatgtgtt aatattgttt tcctggtaga gaattaaggt gttcgttcat ctcaaaacaa 600
 atcccgtaac ctgcacacaa aactccagct tcctaagtca aagagaagag aatattgatt 660
 ataagctgct tgatattctt tttattccca gccctcaaa ataccagcct ggaagtctgg 720
 acattactaa aatttaccag tctcaaaaaa aaaaaaaaaa aaaactcgag 770

<210> 313
 <211> 843
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (87)..(87)
 <223> n equals a,t,g, or c

<220>
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 <222> (89)..(89)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (525)..(525)
 <223> n equals a,t,g, or c

<400> 313
 cnagggataa ccccaaagnt gggaaataaa ccctcaatta aagggggaac caaaaagctg 60
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 aggggaattcg gcacggagtg ggaatgttgt ttgtatgata ctatttccac aawatgcatt 180
 gagacttggg ktgtggccta ggacatggtc aattcttctt aaatattccg tgaatttctt 240
 tagtgcatac tctccgatgg gggctgtggg gacagagttc taaatatgcc cattagatta 300
 aatctcttca ttctgttgct cacatcttct atatccttat taatctgtca atctcttcaa 360
 gagaggtgtt attaaaatct ctactgtat gtgtcacttt gcccttaaaa ttctgatgat 420

```

ttgctttata aatgggttata accattttcc aggaagaaca ttaaagaact ttccattggc 480
attatccagt ttccctcaaa atactggttt tttttatttt ggctnctaag cagctatgaa 540
tccagtttct cagaagccct tgtctcaagg catttggttc cagattacct tgtagcatc 600
cacactatgg gctatttttag aaaaacaaaa aaagtatcaa aatcatatag ctatgatttt 660
cctgtgcttg aaggagcctt aaagctcatc tagtccagcc agtatttggt catccaaatt 720
ctgccaagaa atctctattg tcaagatatt ctttaccatc tttgggacat tctcattatt 780
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aaa 843

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<210> 314

<211> 617

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (9)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (513)..(513)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (559)..(559)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (587)..(587)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (602)..(602)

<223> n equals a,t,g, or c

<400> 314

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agagctcacc aatcagactg cccttggtcta tccatgagca gatgtttgat agtattgcgg 180
aggccctcta gtgggtatgc tgccaagcaa ctggagtggc acttgggctc taatccagtt 240
gtctatccct ttcaccctgg catttcatca gccaaacaaa aaccaactaa ctcagaaaaa 300
aaggaaaagcc cctcaagggt cctttgaccc cgtatctac atagatgcta tcgggggtccc 360
ctgaggggta ccaaacraat tcaaagctcg aaatcaaata gctgctggat tcaagtctgt 420
ccttttcttg tggctacta taaataaaaa tgtagactgg ataaattaca tatactataa 480
aaaaaaaaaa aaaaaaaaaa ctcgaggggg ggnccggtag ccaattcggc ctatagttag 540
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anccaattta atcggt 617

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<210> 315

<211> 1130

<212> DNA

<213> Homo sapiens

<400> 315

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ggcacgagggc catttggtata attcttttagt aaattgtatt aatgggagaa tctgtaagtt 60
atgtctgaac tttcaggttg tcttataatt gtctttttcc ttatgtcaga tgttctatgt 120
cataagaata aaatgggtca caccaatata agtacttagt tgtggaaagg gagagtagaa 180

```

```

gataaaaatg gagattttcc tgtgctacag gcttagtcaa gcttatggtc tatttaatgg 240
ttatcaaagg caattaaata gtgttgaaatg ttctgctttt acctacattt catTTTTcat 300
gtacttagtt acaaattgaa cctcttctta ttttttccct gctcctgttt ctgtttcatt 360
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ttaattctgc tgggtgacagt gccaaagctt tactatactc tttttgttgt ctgttgcttt 480
tctcttgcta atttgcttga ctagataact aagaattcag gtaagcatta gctctttggt 540
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aagatataat ggctttggat tttgggggtga ttttctact gtcagtttaa aaaaaacttg 840
tctatttgca tttgtgtgtt attacttcta gttaagagta tttccaagga aagtttcatt 900
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aagcctatat ttgggaggcc gaggcaggag gattgcttga actcaggagt tcgaaactag 1080
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<210> 316

<211> 3740

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (957)..(957)

<223> n equals a,t,g, or c

<400> 316

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ctacttctca cagggcctgt cagttcagct gtttaatgat gggccaagg gcaaactcaa 180
tcatttatgt ggagctgact ttgtgaaaag tcacagaaa cctccacagg gaatggaat 240
taagtccaat gaaagatgct gttcttttga tggagatgca gacagaattg tttattacta 300
ccatgatgca gatggccact ttcatctcat agatggagac aagatagcaa cgtaattag 360
cagtttctt aaagagctcc tgggtggagat tggagaaagt ttgaatattg gtgtgtgaca 420
aactgcatat gcaaatggaa gttcaacacg gtatcttgaa gaagtattga aggtacctgt 480
ctattgcaat aagactgggtg taaaacattt gcaccacaag gctcaagagt ttgacattgg 540
agtttatttt gaagcaaatg ggcatggcac tgcactgttt agtacagctg ttgaaatgaa 600
gataaaacaa tcagcagaac aactggaaga taagaaaaga aaagctgcta agatgcttga 660
aaacattatt gacttgttta accaggcagc tgggtgatgct atttctgaca tgctgggtgat 720
tgaagcaatc ttggctctga agggcttgac tgtacaacag tgggatgctc tctatacaga 780
tcttccaaac agacaactta aagttcaggt tgcagacagg agagttatta gcactaccra 840
tgctgaaaga caagcagttt cacccccagg attacaggag gcaatcaatg acctggtgaa 900
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cagtatttca gctggctgga ggaattggag aaagggccca accaggtttc tgaagataat 1080
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gcagtactaa gagatttata atcataatgt ttacaatgca gcctactgga ttgtctctag 1200
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caattcagtc actaactgta cagttttatg tggggaacaa ttcatgcagg ctactggaaa 1380
attaaatctt attaccaact ccttgtgata tctttgccat caccatcaca tgagcaagat 1440
gatgttttgc agcattcccc attgtctgata caaatggaga gggcagagaa gactttatac 1500
aaccagtttt tccattgcag agtcttaaga aagattatta gatgacttac ctatatgact 1560
aatgccatca ggaactcaga ggtatgaata ggggggtgtc catccctctt ccatactgag 1620
gtggagatgc tcatgcaata cttttaagga tgcattggtc agccttcagt tattcttcac 1680
tgctcttggt gaaggtatgt gggagaaaaa ctaattataa tacgtttccc agcctctgat 1740
ggagaaggaa caccattctg ataccagaac atggttaata aggaaaagag aaaaatcccc 1800
aaccaatctt aattgaacca agtctgaaac caatggaaaa aaaaatggg tagtgatat 1860
tttcagggtt taagacaact caggacaata aaacaatgg actttacatg tgtatatata 1920
tagctctctt aggcaccata atcagtatga gccacaata tttaaacttg attcaggcca 1980

```

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
| cattcagaca | tttgccttta | tatacaaaata | tttaaattaa | atacaatctg | aaatgtgttc | 2040 |
| tggttacatac | aaaaaaggaa | aaactataca | acgcagagca | gtgtgtgtgt | tttaaataat | 2100 |
| tacattttaca | tgtaagctaa | atggaaccag | caatgggtgt | caagttttta | tcatcccttc | 2160 |
| cagaaaatct | ttttctacca | tctcttctat | tttttgccgt | gctttgctgg | aacatgggtt | 2220 |
| gtgggttctcc | agtttcatgt | ccttattagg | gaaggcattt | gagtagagga | taggactccc | 2280 |
| tgagtgtcct | ccacatcggc | ttgtgacttt | gctgttgaag | acttgactga | gcacattgaa | 2340 |
| gaacggcagg | agctgtctca | tactgcgcac | ggtagagatg | gtgagcagca | agtgccttgg | 2400 |
| ctcccaaccc | aatgttctcc | ctgagttgtc | ttcctctgga | tttttctgca | gaaaacaaaa | 2460 |
| agtgaactgg | tattaataca | acagacaatg | tggtatgtta | gaaaaattaa | aaatatataa | 2520 |
| actttggcaa | ttggtcaaga | aatgaataca | aatgacatta | agtttctaac | tcctgacctg | 2580 |
| atcaaaaacc | ttggtgcttc | tgagaccttt | tactgccatt | tattagtttt | acatggagca | 2640 |
| gtctaacatt | gtagtaatag | ttccaacta | gaatgcgcag | ataagcttag | ttaacagaaa | 2700 |
| tagctttgaa | caggaataga | gtcaaacata | aaagttttat | gttgtgcttt | gtatttactc | 2760 |
| aaaaagctcc | cagggttctg | aaccctcact | actgtaacca | aggactaggt | cacaaaatta | 2820 |
| ctacagaaaa | aaggaacaaa | gtgctttata | cattttcataa | tatatccctt | tttattataa | 2880 |
| ttagttaatt | cccttttata | taaattggcct | aaatttgcca | tgatggtagc | agtgtccaaa | 2940 |
| gtgaataatt | actgtcagta | ctgcatcaca | gagaaaggaa | gggatccctc | aggagacact | 3000 |
| gctgtctcct | tctgggttgt | gctaaacaac | atagggagga | aagctggacc | tggagtcaaa | 3060 |
| ggaattgagt | tagtgtgtctg | gctctgccat | acttacggca | cccttgggca | ggatatacaa | 3120 |
| aggttcctca | cttataaaat | gggacagtct | aaaactacct | tttagtagag | aagtcaaatg | 3180 |
| agaaggtatg | tgaaaactct | gtcaactaaa | tataaagact | aataatttgg | gtattaagag | 3240 |
| gctagtttga | gaagccacct | gaattacaca | aacacagcta | cagacatcat | tctgtctaga | 3300 |
| gaaagataag | agagaacagg | ttggttgaa | ttgggcagaa | tcacagatac | aattccacac | 3360 |
| taaagaatga | aaataagcaa | tgaactagac | agaaggaaga | aatcatgaag | acttaggaag | 3420 |
| cagaattaca | atctgtcata | ttaacaaatg | gagtttgctt | tctaagatca | gatgttgctc | 3480 |
| agaaactttc | attgtttacc | taataattta | atatcactag | tttcctagtg | ggtcaagcag | 3540 |
| atgcaaaatc | cagcttattt | tcttctatgt | gctctcaagc | ttattgctta | ttttaagta | 3600 |
| aaatcctgaa | aaagggaaat | attaggttgg | tgcaaacgta | attgcggttt | ttgcattgtt | 3660 |
| gaaatttgcc | gttttatatt | ggagtacatt | cttaaataaa | tgtggttatg | ttatacaaaa | 3720 |
| aaaaaaaaaa | aaaactcgag | | | | | 3740 |

<210> 317

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (963)..(963)

<223> n equals a,t,g, or c

<400> 317

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| gtcactggag | ctaccagaag | catcatgggg | ccctggggag | agccagagct | cctggtgtgg | 120 |
| cgccccgagg | cggtagcttc | agagcctcca | gtgcctgtgg | ggctggaggt | gaagttgggg | 180 |
| gccctgggtc | tgctgctggt | gctcaccttc | ctctgcagcc | tggtgcccat | ctgtgtgctg | 240 |
| cgccggccag | gagctaacca | tgaaggctca | gcttccccgc | agaaagccct | gagcctagta | 300 |
| agctgtttcg | cggggggctg | ctttttggcc | acttgtctcc | tggaacctgt | gcctgactac | 360 |
| ctggctgcca | tagatgaggc | cctggcagcc | ttgcacgtga | cgctccagtt | ccactgcaa | 420 |
| gagttcatcc | tggccatggg | cttcttctct | gtcctgggtga | tggagcagat | cacactggct | 480 |
| tacaaggagc | agtcagggcc | gtcacctctg | gaggaaacaa | gggctctgct | gggaacagtg | 540 |
| aatgggtggc | cgagcattg | gcatgatggg | ccaggggtcc | cacaggcgag | tggagcccca | 600 |
| gcaacccctt | cagccttgcg | tgcctgtgta | ctgggtgtct | ccctggccct | ccactccgtg | 660 |
| ttcagagggc | tggcggtagg | gctgcagcga | gaccgggctc | gggccatgga | gctgtgcctg | 720 |
| gctttgtctg | tccacaaggg | catcctggct | gtcagcctgt | ccctgcggct | gttgagagc | 780 |
| caccttaggg | cacaggtggt | ggctggctgt | gggatcctct | tctcatgcat | gacaccteta | 840 |
| ggcatcgggc | tgggtgcagc | tctggcagag | tcggcaggac | ctctgcacca | gctggccccc | 900 |
| tctgtgctag | agggcatggc | agctggcacc | tttytytata | tcaccttity | ggaaatcctg | 960 |
| ctntttcatc | ccaaatttaa | gggggtttca | agaagaa | | | 997 |

<210> 318

<211> 1770

<212> DNA

<213> Homo sapiens

<400> 318

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| gctgagtgtg | agctgagcct | gccccaccac | caagatgatc | ctgagcttgc | tgttcagcct | 60 |
| tgggggcccc | ctgggctggg | ggctgctggg | ggcatgggcc | caggcttcca | gtactagcct | 120 |
| ctctgatctg | cagagctcca | ggacacctgg | ggctctggaag | gcagaggctg | aggacaccag | 180 |
| caaggacccc | gttgagcgtg | actgggtgcc | ctacccaatg | tccaagctgg | tcaccttact | 240 |
| agctctttgc | aaaacagaga | aattcctcat | ccactcgag | cagccgtgtc | cgcaggagct | 300 |
| ccagactgcc | agaaagtcaa | agtcattgtac | cgcatggccc | acaagccagt | gtaccagggtc | 360 |
| aagcagaagg | tgctgacctc | tttggcctgg | aggtgctgcc | ctggctacac | gggcccac | 420 |
| tgcgagcacc | acgattccat | ggcaatccct | gagcctgcag | atcctgggtga | cagccaccag | 480 |
| gaacctcagg | atggaccagt | cagcttcaaa | cctggccacc | ttgctgcagt | gatcaatgag | 540 |
| gttgagggtg | aacaggaaca | gcaggaacat | ctgctgggag | atctccagaa | tgatgtgcac | 600 |
| cgggtggcag | acagcctgcc | aggcctgtgg | aaagccctgc | ctggtaacct | cacagctgca | 660 |
| gtgatggaag | caaatcaaac | agggcacgaa | gttccttgat | agatccttgg | agcagggtgt | 720 |
| gctaccccac | gtggacacct | tcctacaagt | gcatttcagc | cccatctgga | ggagctttaa | 780 |
| ccaaagcctg | cacagcctta | cccaggccat | aagaaacctg | tctcttgacg | tgagggccaa | 840 |
| ccgccaggcc | atctccagag | tccaggacag | tgccgtggcc | agggctgact | tccaggagct | 900 |
| tggtgccaaa | tttgaggcca | aggtccagga | gaacactcag | agagtgggtc | agctgcgaca | 960 |
| ggacgtggag | gaacgcctgc | acgccagca | ctttaccctg | caccgctcga | tctcagagct | 1020 |
| ccaagccgat | gtggacacca | aattgaagag | gctgcacaag | gctcaggagg | ccccagggac | 1080 |
| caatggcagt | ctggtgttgg | caacgcctgg | ggctggggca | aggcctgagc | cggacagcct | 1140 |
| gcaggccagg | ctgggcccagc | tgagaggaa | cctctcagag | ctgcacatga | ccacggccccg | 1200 |
| cagggaggag | gagttgcagt | acaccctgga | ggacatgagg | gccaccctga | ccgggcacgt | 1260 |
| ggatgagatc | aaggaaactgt | actccgaatc | ggacgagact | ttcgatcaga | ttagcaagggt | 1320 |
| ggagcggcag | gtggaggagc | tgaggtgaa | ccacacggcg | ctccgtgagc | tgcgctgat | 1380 |
| cctgatggag | aagtctctga | tcatggagga | gaacaaggag | gaggtggagc | ggcagctcct | 1440 |
| ggagctcaac | ctcacgctgc | agcacctgca | gggtggccat | gccgacctca | tcaagtacgt | 1500 |
| gaaggactgc | aattgccaga | agctctatct | agacctggac | gtcatccggg | agggccagag | 1560 |
| ggacgccacg | cgtgccctgg | aggagaccca | ggtgagcctg | gacgagcggc | ggcagctgga | 1620 |
| cggctcctcc | ctgcaggccc | tgagaacgc | cgtggacgcc | gtgtcgctgg | ccgtggacgc | 1680 |
| gcacaaagcg | gagggcgagc | ggcgcgggc | ggccacgtcg | cggctccgga | gccaagtgca | 1740 |
| ggcgctggat | gacgaggtgg | gcgcgctgaa | | | | 1770 |

<210> 319

<211> 1167

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (432)..(432)

<223> n equals a,t,g, or c

<400> 319

| | | | | | | |
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| gggggtgggg | caggcgacgg | tggggaagat | ggcgtaccag | agcttgcggc | tggagtacct | 60 |
| gcagatccca | ccggtcagcc | gcgcctacac | cactgcctgc | gtcctcacca | ccgccgccgt | 120 |
| gcagttggaa | ttgatcacac | cttttcagtt | gtacttcaat | cctgaattaa | tctttaaaca | 180 |
| ctttcaaata | tggagattaa | tcaccaactt | cttatttttt | gggccagttg | gattcaattt | 240 |
| tttattttaac | atgatttttc | tatatcgtaa | ctgtcgaaatg | ctagaagaag | gctctttccg | 300 |
| aggtcggaca | cgagactttg | tattttatgtt | cctttttggg | ggattcttaa | tgaccttttt | 360 |
| tggtctgttt | gtgagcttag | ttttcttggg | ccaggccttt | acaataatgc | tcgtctatgt | 420 |
| gtggagccga | angaaccctt | atgtccgcag | gaacttcttc | ggccttctca | acttccaggc | 480 |
| cccctttctg | ccctgggtgc | tcatgggatt | ttccttggtg | ttggggaact | caatcattgt | 540 |
| ggaccttttg | ggtattgcag | ttggacacat | atattttttc | ttggaagatg | tatttcccaa | 600 |
| tcaacctggt | ggaataagaa | ttctgaaaac | accatctatt | ttgaaagcta | tttttgatac | 660 |
| accagatgag | gatccaaatt | acaatccact | acctgaggaa | cggccaggag | gcttcgcctg | 720 |
| gggtgagggc | cagcggtttg | gaggttaaag | cagcagtgcc | aataatgaga | cccagctggg | 780 |
| aaggactcgg | tgatacccac | tgggatcttt | tatcctttgt | tgcaaaagtg | tggacacttt | 840 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tgacagcttg | gcagatttta | actccagaag | cactttatga | aatggtacac | tgactaatcc | 900 |
| agaagacatt | tccaacagtt | tgccagtggg | tcctcactac | actggtactg | aaagtgtaat | 960 |
| ttcttagagc | caraaaactg | gagaaacaaa | tatcctgcc | cctctaaca | gtacatgagt | 1020 |
| acttgatttt | tatggtataa | gcagagcctt | ttcttcctct | tcttgataga | tgaggccatg | 1080 |
| gtgtaaatgg | aagtttcaga | gaggacaaaa | taaaacggaa | ttccattttt | ctctcactgt | 1140 |
| aaaaaaaa | aaaaaaagg | cggccgc | | | | 1167 |

<210> 320

<211> 1618

<212> DNA

<213> Homo sapiens

<400> 320

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| ccacgcgtcc | gcaaggagcc | agaggccatg | cagtggctca | gggtccgtga | gtcgcctggg | 60 |
| gaggccacag | gacacagggg | caccatgggg | acagccggcc | tgggtcccgt | ctgggcagcg | 120 |
| ctcctgctct | ttctcctgat | gtgtgagatc | cctatggtgg | agctcacctt | tgacagagct | 180 |
| gtggccagcg | actgccaacg | gtgctgtgac | tctgaggacc | ccctggatcc | tgcccattgta | 240 |
| tcctcagcct | cttctctcgg | ccgcccccc | gccctgcctg | agatcagacc | ctacattaat | 300 |
| atcaccatcc | tgaagggtga | caaaggggac | ccaggcccaa | tgggcctgcc | agggtacatg | 360 |
| ggcagggagg | gtccccaagg | ggagcctggc | cctcagggca | gcaaggggtga | caagggggag | 420 |
| atgggcagcc | ccggcgcccc | gtgccagaag | cgcttcttcg | ccttctcagt | gggccgcaag | 480 |
| acggccctgc | acagcggcga | ggacttcag | acgtgctct | tcgaaagggt | ctttgtgaac | 540 |
| cttgatgggt | gctttgacat | ggcgaccggc | cagtttgctg | ctcccctgcg | tggcatctac | 600 |
| ttcttcagcc | tcaatgtgca | cagctggaat | tacaaggaga | cgtagctgca | cattatgcat | 660 |
| aaccagaaa | aggctgtcat | cctgtacgcg | cagcccagcg | agcgagcat | catgcagagc | 720 |
| cagagtgtga | tgctggacct | ggcctacggg | gaccgcgtct | gggtgcggct | cttcaagcgc | 780 |
| cagcgcgaga | acgccatcta | cagcaacgac | ttcgacacct | acatcacctt | cagcggccac | 840 |
| ctcatcaagg | ccgaggacga | ctgagggcct | ctgggccacc | ctcccggctg | gagagctcag | 900 |
| ctgatacggc | atcctgcgag | aagacctgcc | ctcctcactg | ggatcccctt | cctgcctcct | 960 |
| cccagggtct | tgccagggcc | ttgctcagtc | ccttcacca | aagtcatctg | aacttccgtt | 1020 |
| tcccagggtc | tccagctgcc | ctcagacact | gatgtctgtc | cccagggtgt | ctctgcccct | 1080 |
| catgcccctc | tcaccggccc | agtgccccga | ctctccagge | tttatcaagg | tgctaaggcc | 1140 |
| cgggtgggca | gctcctcgtc | tcagagccct | cctccggcct | ggtgtgcctt | ttacaaacac | 1200 |
| ctgcaggaga | agggccacgg | aagccccagg | ctttagagcc | ctcagcaggt | ctggggagct | 1260 |
| agagcaaagg | agggacctca | ggccttcctg | ttcttcttcc | agggtggggg | ggcctgggtg | 1320 |
| tcccctagcc | ttccaaaccc | agggtggcctg | cccttctccc | cagagggagg | cggcctccgc | 1380 |
| ccattggtgc | tcattgcagac | tctggggctg | agggtgcccc | gggggtgac | tctgggtgctc | 1440 |
| acagtgcagg | gagccgtggc | tccatggcca | gatgacggaa | acagggtctg | accaagtgcc | 1500 |
| aggaagacct | gtgctataaa | ccacctgccc | tgatcctgcc | cctgcctgac | cccgccacgc | 1560 |
| cctgcgcgtcc | agcatgatta | aagaatgctg | tctcctcttg | gaaaaaaaa | aaaaaaaa | 1618 |

<210> 321

<211> 1338

<212> DNA

<213> Homo sapiens

<400> 321

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| cccacgcgtc | cggttccccc | atctgtctct | caggagcgag | atctgatcgc | tgaatttgcc | 60 |
| caagtcacaa | attggtccag | ctgctgcttg | cgtgtctttg | catggcaccc | ccacaccaac | 120 |
| aagtttgacg | tgccctgct | agatgactca | gtccgtgtgt | ataatgccag | cagcaccata | 180 |
| gtcccctccc | tgaagcaccg | gctgcagcga | aatgtggcgt | ctctggcctg | gaagcccctt | 240 |
| agtgcctctg | tcttggtgtg | ggcctgccag | agctgcattc | ttatctggac | cctggaccct | 300 |
| acctccttgt | ctacccgacc | ctcttctggc | ttgtcccaag | tgctgtctca | ccctgggcat | 360 |
| acacctgtta | ccagcttggc | ctgggcccc | agtggggggc | ggctgtcttc | agcttcaccg | 420 |
| tggatgctgc | tatccgggta | tgggatgtct | caacagagac | ctgtgtcccc | cttccctggg | 480 |
| ttcgaggagg | tggggtgacc | aactgctctg | gtcccagac | ggcagcaaaa | tcctggctac | 540 |
| cactccttca | gctgtcttcc | gagtctggga | ggcccagatg | tggacttgtg | agaggtggcc | 600 |
| tactctatca | gggcgctgtc | agactggctg | ctggagccca | gatggcagcc | gactgctgtt | 660 |
| cactgtattg | ggagagccac | tgatttactc | cctgtctttt | ccagaacgtt | gtggtgaggg | 720 |
| aaaggggtgc | gttgagggtg | caaagtcagc | aacgattgtg | gcagatctgt | ctgagacaac | 780 |
| aatacagaca | ccagatgggtg | aggagaggct | tgggggagag | gctcactcca | tgggtctggga | 840 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| ccccagtggg | gaacgtctgg | ctgtgcttat | gaaaggaaag | ccaaggggtac | aggatggtaa | 900 |
| accagtcata | ctcctttttc | gcactcgaaa | cagccctgtg | tttgagctcc | ttccctgtgg | 960 |
| cattatccag | ggggagccag | gagcccagcc | ccagctcatc | actttccatc | ttccttcaac | 1020 |
| aaagggggcc | tgctcagtg | gggtggtcc | acaggccgaa | ttgcccacat | cccgctgtac | 1080 |
| tttgtcaatg | cccagtttcc | acgttttagc | ccagtgtctg | ggcggggcca | ggaacccctt | 1140 |
| gctgggggtg | gaggctctat | tcatgacctg | cccctcttta | ctgagacatc | cccaacctct | 1200 |
| gccccttggg | accctctccc | agggccacca | cctgttctgc | cccactcccc | acattcccac | 1260 |
| ctctaagaat | aaataagttt | tccttttgtt | ttccaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1320 |
| aaaaaaaaaa | aaaaaaaaaa | | | | | 1338 |

<210> 322

<211> 1892

<212> DNA

<213> Homo sapiens

<400> 322

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| ccacgcgtcc | gcgggaccgg | acggatcttc | tccggccatg | aggaagccag | ccgctggcctt | 60 |
| ccttccctca | ctcctgaagg | tgctgtcctt | gcctctggca | cctgcccag | cccaggattc | 120 |
| gactcaggcc | tccactccag | gcagccctct | ctctcctacc | gaatacgaac | gcttcttcgc | 180 |
| actgtcgtac | ccaacctgga | aggcagagac | tacctgccgt | ctccgtgcaa | cccacggctg | 240 |
| ccggaatccc | acactcgtcc | agctggacca | atatgaaaac | cacggcttag | tgcccgatgg | 300 |
| tgctgtctgc | tccaacctcc | cttatgcctc | ctggtttgag | tctttctgcc | agttcactca | 360 |
| ctaccgttgc | tccaaccacg | tctactatgc | caagagagtc | ctgtgttccc | agccagtctc | 420 |
| tattctctca | cctaacactc | tcaaggagat | agaagcttca | gctgaagtct | caccaccac | 480 |
| gatgacctcc | cccatctcac | cccacttcac | agtgacagaa | cgccagacct | tccagccctg | 540 |
| gcctgagagg | ctcagcaaca | acgtggaaga | gctcctacaa | tcctccttgt | ccctgggaag | 600 |
| ccaggagcaa | gcgccagagc | acaagcagga | gcaaggagtg | gagcacaggc | aggagccgac | 660 |
| acaagaacac | aagcaggaag | aggggcagaa | acaggaagag | caagaagagg | aacaggaaga | 720 |
| ggagggaaag | caggaagaag | gacaggggac | taaggaggga | cgggaggctg | tgtctcagct | 780 |
| gcagacagac | tcagagccca | agtttcactc | tgaatctcta | tcttctaacc | cttctctttt | 840 |
| tgctccccgg | gtacgagaag | tagagtctac | tcctatgata | atggagaaca | tccaggagct | 900 |
| cattcgtatc | gcccaggaaa | tagatgaaat | gaatgaaata | tatgatgaga | actcctactg | 960 |
| gagaaaccaa | aaccttgcca | gcctcctgca | gctgcccac | acagagcctt | gctggtgctg | 1020 |
| tgctattcga | tcgtggagaa | tacctgcata | ataaccccca | cagccaaggc | ctggaagtac | 1080 |
| atggaggagg | agatccttgg | tttcgggaag | tcggtctgtg | acagccttgg | gcggcgacac | 1140 |
| atgtctacct | gtgccctctg | tgacttctgc | tccttgaagc | tggagcagtg | ccactcagag | 1200 |
| gccagcctgc | agcggcaaca | atgcgacacc | tcccacaaga | ctccctttgc | agccccttgc | 1260 |
| ttgcctccca | gagcctgtcc | atcggaaccc | aggtagggtc | cccagaatca | ggccgctttt | 1320 |
| acgggctgga | tttgtacgg | gggtccaca | tgacttctg | gtgtgcccgg | cttgccacga | 1380 |
| aaggctgtga | agatgtccga | gtctctgggt | gggtccagac | tgagttcctt | agcttccagg | 1440 |
| atggggattc | cctaccaaga | tttgtgacac | agactatata | cagtacccaa | actactgttc | 1500 |
| cttcaaaagc | cagcagtgtc | tgatgagaaa | ccgcaatcgg | aagggtgtcc | gcatgagatg | 1560 |
| tctgcagaat | gagacttaca | gtgcgctgag | ccctggcaaa | agtgaggacg | ttgtgcttcg | 1620 |
| atggagccag | gagttcagca | ccttgactct | aggccagttc | ggatgagctg | gcgtctattc | 1680 |
| tgccccacac | ccagcccaac | ctgcccacgt | ctctatttgt | tttgagacct | cattgctttc | 1740 |
| aggctgcccc | ttctgggtct | gttactcggc | ccctactcac | atttccttgg | gttgagcaaa | 1800 |
| cagtcccaga | gagggccatg | gtgggagtgc | gccctcctta | aaagatgact | ttacataaaa | 1860 |
| tgttgatctt | caaaaaaaaa | aaaaaaaaaa | aa | | | 1892 |

<210> 323

<211> 813

<212> DNA

<213> Homo sapiens

<400> 323

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaagaaggta | cgctgcagg | accgggtccg | aattcccggg | tcgaccacag | cgtccgcaaa | 60 |
| aagcagacat | agcttcagat | gcagcttgat | ccagggtcca | gatgccatga | tcagaatcca | 120 |
| attcttgcat | ctgtttcttt | gggttggtct | cattttcagg | cagccccctt | cctcatatcc | 180 |
| tcaagatggc | agagacagcc | ctaggtcttt | cccttgca | gacagatcac | caggaacaaa | 240 |
| tacctctatc | cctagccatg | aaacagtctt | gaactttatt | ctgacttgat | cagccaagtc | 300 |
| cctgttgtaa | ccatcactgc | ctagcttagg | cctgagacag | tgctgcacct | ctactaccaa | 360 |

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| aggccgggct | ggccttccct | aaagtgtatg | tgctgctgg | gggagaggta | cggatctgaa | 420 |
| ccaaaacgag | ggctgtccag | cgtcagcaaa | tatctcccgc | agtcaccagt | cctccagcag | 480 |
| gaggcaaac | atcaaccct | ccgtctggct | cctctactga | aaattccctc | agcagcctca | 540 |
| caggccttag | gcttgtctta | gctacttctt | catctacttt | tttgctttct | taattatttt | 600 |
| tcttttcttt | tttcttattt | tattttattt | tatttttagat | ggagtttcgc | tccgtcgccc | 660 |
| aggctgaagt | gcagtggcgt | gatcttggct | cggtgcaacc | tccacctccc | gggttcagga | 720 |
| gaatcgcttg | agccccagga | ggcggagggt | gtgggaagcc | aagatcgcac | cactgcactc | 780 |
| cagcctgggc | aacaagagca | gaacgccatc | tca | | | 813 |

<210> 324

<211> 1038

<212> DNA

<213> Homo sapiens

<400> 324

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|------|
| ccacgcgtcc | gagacattta | aactagattc | ccagtcctct | ccttcaaaaag | cttgggtcttt | 60 |
| gtttttccta | tagggaaaaa | agtcaaaata | agttccaaaa | actatcctca | aagtagtatt | 120 |
| gtgctttag | taaatgaagg | ttggatggat | ggatactgac | aatgggtggca | ggcatttcaa | 180 |
| gccttttaaa | ttagtacttt | ttgtcgtctt | gcttattaaa | attttgtaa | ttttagcaaa | 240 |
| gaccaattgt | tgtgataaac | tgggtgtttt | tggatgcttc | aagcacacgt | taaccaattt | 300 |
| tttaattccc | cttttggttc | ctcccattgt | tctaaaatag | gactttcata | ttattaaaac | 360 |
| ctcaaaagat | gatccaccca | ggatgaacaa | agatcaccaa | ggggaaagaa | aacatttttt | 420 |
| atctttacag | aaaacatggt | aagattatat | atagatgtat | tctttacatt | ggatattgta | 480 |
| ttagagtcc | ccttacaaga | aatgaaatag | tttttagcac | tcttagcatt | agagttccta | 540 |
| gattggtgtt | gatagctaca | gttttaaaat | gtataacctg | aaaatgaagg | ttaattttgc | 600 |
| attgtaagag | cacatttgat | ctatgtaaaa | agtgtccatt | tgggtgtattt | ttttaaaaaa | 660 |
| gagaaagcac | tttcatatta | agtagcatgt | gtatgaattt | agattttcat | attgtgtgtg | 720 |
| tctgtattca | gtgaagtaaa | ttgagcattt | aaatgtttgt | tgatggcaac | attaactatt | 780 |
| aaattaaagc | accttatact | ctgctgctta | acttgcttgt | aattgcacct | ttgttacctg | 840 |
| cacattttca | tatagaatat | tgtttgtaaca | tgtcttcatt | tgggtctgga | tggaagatta | 900 |
| gtgggcttac | aggatcattt | atttatattg | tttatattac | aataatatat | tgtagatcag | 960 |
| ttgtaagttc | atttctttac | aaataaaagc | ctcttcatt | tgaaaaaaa | aaaaaaaaa | 1020 |
| aaaaaaaaa | aaaaaaaaa | | | | | 1038 |

<210> 325

<211> 2383

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (538)..(538)

<223> n equals a,t,g, or c

<400> 325

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| gagcccacga | gaggcagcgc | catggcggag | cagacctact | cgtgggccta | ttccctgggtg | 60 |
| gattccagtc | aagtgtctac | atttctgatt | tccattcttc | ttatagtcta | tggtagtatty | 120 |
| aggctccctta | atatggactt | tgaaaatcaa | gataaggaga | aagacagtaa | tagttcttct | 180 |
| gggtcttttca | atggcaacag | caccaataat | agcatccaaa | caattgactc | taccagggt | 240 |
| ctgttccttc | caattggagc | atctgtctct | cttttagtaa | tgttcttctt | ctttgactca | 300 |
| gttcaagtag | tttttacaat | atgtacagca | gttcttgcaa | cgatagcttt | tgtctttctt | 360 |
| ctctcccga | tgtgccagta | tttaacaaga | ccctgctcac | ctcagaacaa | gatttccttt | 420 |
| ggttgctgtg | gacgtttcac | tgtctgtgag | ttgtctcat | tctctctgtc | tgtcatgctc | 480 |
| gtcctcatct | gggttctcac | tggecattgg | cttctcatgg | atgcactggc | catgggcntc | 540 |
| tgtgtcgcca | tgatcgctt | tgtccgcctg | ccgagcctca | aggctctctg | cctgcttctc | 600 |
| tcagggtctc | tcatctatga | tgtcttttgg | gtatttttct | cagcctacat | cttcaatagc | 660 |
| aacgtcatgg | tgaagtggtc | cactcagccg | gctgacaatc | cccttgacgt | tctatcccg | 720 |
| aagctccacc | tggggcccaa | tgttgggcgt | gatgttcttc | gcctgtctct | gcctggaaaa | 780 |
| ctggctcttc | caagctccac | tggcagccac | ttctccatgt | tgggcatcgg | agacatcggt | 840 |
| atgcctggtc | tctactatg | ctttgtctct | cgctatgaca | actacaaaaa | gcaagccagt | 900 |
| ggggactcct | gtggggcccc | tggacctgcc | aacatctccg | ggcgcatgca | gaaggtcttc | 960 |

| | | | | | | |
|--------------|------------|------------|------------|-------------|------------|------|
| tacttttcaact | gcacctcat | cggatacttt | gtaggcctgc | tcactgctac | tgtggcgctc | 1020 |
| cgcatttcacc | gggcccga | gcccgcctt | ctctatttgg | tgccatttac | tttattgcca | 1080 |
| ctcctcacga | tggcctat | aaagggcgac | ctccggcgga | tgtggtctga | gcctttccac | 1140 |
| tccaagtcca | gcagctccc | attcctggaa | gtatgatgga | tcacgtggaa | agtgaccaga | 1200 |
| tggccgtcat | agtccttttc | tctcaactca | tggtttgttt | cctcttagag | ctggcctggt | 1260 |
| actcagaaat | gtacctgtgt | ttaaggaact | gccgtgtgac | tggatttggc | atttaaaggg | 1320 |
| agctcgtttg | caggagagag | gtgctggagc | cctgttttgt | tccttctctt | cctgcggatg | 1380 |
| tagagggtggg | gccccttcca | agagggacag | gcctctcccc | agcgcgcctt | cctccacgt | 1440 |
| ttttatggat | ctgcaccaga | ctgttacctt | ctgggggaga | tggagatttg | actgtttaaa | 1500 |
| aactgaaaac | agcgaggagt | ctttctagaa | cttttgaaca | ctaaaaggat | gaaaaaaatt | 1560 |
| agcaaaccga | agtttcttca | atgacccctc | gagaactttg | ggaccagt | cctatrgggg | 1620 |
| actcagtttc | agagaactga | gacagaagct | cttctgtcgt | tatatctctc | tttccttttt | 1680 |
| ttggatttat | taaatatttt | ctgtggtgtg | aagtgactta | ttaaattccac | agacattgag | 1740 |
| tgacttctta | caacatccac | ataagrattt | gttgtaatga | gttcagtgtc | accagatgt | 1800 |
| tgtgttggca | gtgaacaagg | gcacggtttt | tatacatatg | tacatatata | tatatataa | 1860 |
| cacacataga | tatatatgaa | taaacaaaaa | tgaatcctg | ctaagatcac | gctgtgtagc | 1920 |
| tgacaggggc | ttgtgtcgt | tttgagcatg | tcgagcagtt | tactgtggct | tccttgtata | 1980 |
| tggataagct | gctgtccttc | cccttcacaa | ctgaccccg | agttacaaac | tagtatagca | 2040 |
| tttgtgtctga | ttgatgatag | actcatggac | ttcaggagcc | cttacttgg | tttgatcagt | 2100 |
| gtagcaaat | agggatgaag | agttcaaac | ttttggccct | ttctttcttt | tctaggcttc | 2160 |
| tccctcgcag | gggtgtccgt | agtttcttct | cgagccaatg | catgtattat | agcagcaggt | 2220 |
| gtctttgtgc | tttctcatca | tagtaacgta | ctacttgtaa | atacattttt | ctattttcta | 2280 |
| tttttttcta | tttttttttg | acattttgtt | tcatttgtgt | gctgtatatt | ttccatgccc | 2340 |
| tcactccttt | aagaaaaaaa | aaaaaaaagg | aaaaaagcaa | cac | | 2383 |

<210> 326

<211> 2081

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (538)..(538)

<223> n equals a,t,g, or c

<400> 326

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|------|
| gggttctcaa | tggaaaaata | ttggtagaca | tcagcaacaa | cctcaaaatc | aatcaatatc | 60 |
| cagaatctaa | tgcagagtac | cttgctcatt | tgggtgccag | agcccacgtg | gtaaaaagcat | 120 |
| ttaacaccat | ctcagcctgg | gctctccagt | caggagcact | ggatgcaagt | cggcaggtgt | 180 |
| ttgtgtgtgg | aaatgacagc | aaagccaagc | aaagagtgat | ggatattgtt | cgtaatcttg | 240 |
| gacttactcc | aatggatcaa | ggatcactca | tggcagccaa | agaaattgaa | aagtaccccc | 300 |
| tgcagctatt | tccaatgtgg | aggttccctt | tctatttgtc | tgtgtgtgtg | tgtgtcttct | 360 |
| tgtttttcta | ttgtgttata | agagacgtaa | tctaccctta | tgtttatgaa | aagaaagata | 420 |
| atacatttcg | tatggctatt | tccattccaa | atcgatatct | tccaataaca | gcacttacac | 480 |
| tgcttgcttt | ggtttactcc | ctgggtgtat | agctgccatt | ctacaactgt | accgaggnc | 540 |
| caaaataaccg | tcgattccca | gactggcttg | accactggat | gctttgccga | aagcagcttg | 600 |
| gcttggttagc | tctgggattt | gccttccttc | awgtcctctm | cmacttgtg | attcctattc | 660 |
| gatattatgt | acgatgraga | ttgggaaact | taaccgttac | ccagscaata | ctcaagaagg | 720 |
| agaatccatt | tagcacytcy | tcagcctggc | tcagtgat | atatgtggct | ttgggaatac | 780 |
| ttgggttttt | tctgtttgta | ctcttgggaa | tcacttcttt | gccatctgtt | agcaatgcag | 840 |
| tcaactggag | agagttccga | tttgtccagt | ccaaactggg | ttatttgacc | ctgatcttgt | 900 |
| gtacagccca | caccctgggtg | tacgttggga | agagattcct | cagcccttca | aatctcagat | 960 |
| ggatatcttc | tgcagcctac | gtgttagggc | ttatcattcc | ttgcaactgt | ctgggtgatca | 1020 |
| agtttgcctt | aatcatgcca | tgtgtagaca | acacccttac | aaggatccgc | agggctggga | 1080 |
| aaggaactca | aaacactaga | aaaagcattg | aatggaaaaat | caatatttaa | aacaaagttc | 1140 |
| aatttagctg | gattttctgaa | ctatggtttt | gaatgtttta | agaagaatga | tgggtacagt | 1200 |
| taggaaagtt | tttttcttac | accgtgactg | agggaaacat | tgttctgtct | tgagaaattg | 1260 |
| actgacatac | tgggaagaga | caccatttta | tctcaggtta | gtgaagaatc | agtcaggtc | 1320 |
| cctgactctt | atthtccag | aggccatgga | gctgagattg | agactagcct | tgtggtttca | 1380 |
| cactaaagag | tttcttctgt | atgggcaaca | tgcattgac | aatgtcttgc | aaaatccaat | 1440 |
| agaagtattg | cagcttctct | ctctggctca | agggctgagt | taagtgaag | gaaaaacagc | 1500 |

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|------|
| acaatggtga | ccactgataa | aggcttttatt | aggatatct | gaggaagtgg | gtcacatgaa | 1560 |
| atgtaaaaag | ggaatgaggt | ttttgttggt | ttttggaagt | aaaggcaaac | ataaatatta | 1620 |
| ccatgatgaa | ttctagttaa | atgacccctt | gactttgctt | ttcttaatac | agatatttac | 1680 |
| tgagaggaac | tatttttata | acacaagaaa | aattttacaat | tgattaaaag | tatccatgtc | 1740 |
| ttggatacat | acgtatctat | agagctggca | tgtaattctt | cctctataaa | gaataggtat | 1800 |
| aggaaagact | gaataaaaaat | ggagggatat | ccccttggat | ttcacttgca | ttgtgcaata | 1860 |
| agcaaagaag | gggttgataaa | agttcttgat | caaaaagtgc | aaagaaacca | gaattttaga | 1920 |
| cagcaagcta | aataaatatt | gtaaaattgc | actatattag | gttaagtatt | atttaggtat | 1980 |
| tataatatgc | tttgtaaaatt | ttatattcca | aatattgctc | aatatttttc | atctattaaa | 2040 |
| ttaatttcta | gtgtaaaaaa | aaaaaaaaaa | aggcgccgcg | c | | 2081 |

<210> 327

<211> 646

<212> DNA

<213> Homo sapiens

<400> 327

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcgaccacg | cgtccgataa | ctttttcaag | caatatcagt | gagtgggtcc | catcgacagg | 60 |
| gttccaggac | ctggaacact | ttaacagaag | gaaatgccga | agcagcttgc | acagttgctt | 120 |
| tacagacttc | caagaggctg | attctggctt | caagatggag | ccttggagtt | ggtttttttt | 180 |
| tttttttttt | ttcttccctc | aaagaacctg | cggttgcgct | ttgtgtgttt | tgtttttggt | 240 |
| ttccatttgg | gggccccatg | ggaagagct | tctgaactct | ttcctttatg | aactccact | 300 |
| gtgttcctat | aaaggccctt | ttctttctta | gtgttgtaag | ttacattttc | attatgcccc | 360 |
| atcacatctt | ctttactgta | aaaatattaa | aaagctgttt | ccaagtggga | cagctaataa | 420 |
| agctctaatt | attgcagaca | tatttttgag | atgtaaaaaa | aaaaatttaa | agttaaatga | 480 |
| taagtcttag | aggcgagtga | ggaataaaat | ggatgtaaac | atttacatgg | gatgcattag | 540 |
| aattctgctg | tgtgtactgt | cttttggttg | aaacaaatta | tgaacagtga | ctaataataa | 600 |
| aaagtcaata | cccaawraaa | aaaaaaaaaa | aaaaaaaaag | gcggcc | | 646 |

<210> 328

<211> 312

<212> DNA

<213> Homo sapiens

<400> 328

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aattccccgg | tcgaccacg | cgtccgtgat | gagtggattt | gtactcttac | ccaggtcctg | 60 |
| agggccagcc | caccagcat | ccccaccct | gatgacgctg | tccctacaac | tggtgaact | 120 |
| ggtgcatttt | gtgtgtgcct | tccagagcca | gtggactggg | gtgtatccaa | tgatgccacc | 180 |
| tctgaaacct | acagaaccac | tatgctttgc | atgtgtaccc | tcaggggtct | gagggccagg | 240 |
| ctgtctggta | gctctgctcc | tgggtgacag | agcaagactc | tgtctcaaaa | aaaaaaaaaa | 300 |
| agggcggccg | ct | | | | | 312 |

<210> 329

<211> 826

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (726)..(726)

<223> n equals a,t,g, or c

<400> 329

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|-----|
| ggtcgaccca | cgcgtccggc | tccctttgtt | ttgggtggcag | ccttcttggtg | ctgtatactt | 60 |
| gttccttagg | gtgtataata | atatgtgcac | tagagtgccta | ggtaccctac | cacattgctg | 120 |
| ggaccttgcc | acactgctgc | agccttccag | taggatattgg | gggaatgtca | gtgaggtcc | 180 |
| agggatgtag | atatgtaggg | aatgttggac | cccagggcaa | catgcaatct | ggtaggagtt | 240 |
| gggctctcaa | aatgggtgctg | ctgtgtaaca | gctgcttggg | tcttggggta | gggagtgtag | 300 |
| gaccagcat | gagctccctc | tttgagcag | tgctgtctga | gactccaggc | agctccgtgt | 360 |
| attagtctca | ggacctgcaa | aggcctaggg | gctctttttg | ggtaggactg | caggagtctc | 420 |
| catggtggga | atgtgaacca | ctggaaatct | ctcatttacc | atttccctgt | actggagatg | 480 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| ctttctgggc | tcccagatga | tactarctgg | gctgggtgcc | tcamttcctt | ctccctctgt | 540 |
| gcataaggca | ttttctgtca | cttctctgct | gaactctagt | gttctttcct | agaggctgta | 600 |
| ctcaaagttt | cattatccat | tcagtatttt | tattcttctt | tgtggagggtg | gcaagtgcta | 660 |
| ggtgcctcta | gtcaatcatc | ttgaagcccc | ctgttatgtt | aaagtcttta | atggaaaaag | 720 |
| aagacnacat | gcatgaccag | gcagatactt | tgagcagagt | cataggaact | gctaaaaaaa | 780 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaag | gcggcc | | 826 |

<210> 330

<211> 770

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (770)..(770)

<223> n equals a,t,g, or c

<400> 330

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| atgtgctggg | ctcaggaaaa | gttcaaccca | tcaatagggt | atcacatata | tatactctgg | 60 |
| gactgattgg | accacatttt | ctcactgaat | tgactgattg | atgaattcag | ttggcagaat | 120 |
| taactcttct | atgtctacat | gaagtgccat | ttagaataaa | tcaactctta | atcagcctgg | 180 |
| gatagtcagt | actaaaagca | ccttcacatg | ctgtgaaaaa | tttaatgcat | ttattttacat | 240 |
| atthagtttt | aaattttagt | atattgttag | ttgaggtata | gtttccaaac | aaagagccgt | 300 |
| gaaatgttta | gtaaactgtc | ctgtacctct | ggatgaggac | agctcagccg | ggaatggagg | 360 |
| gggactgggt | gaggagacca | gaatgtcagt | gtggccacgc | agcacacttt | tgttttgtct | 420 |
| tctgtccttg | agcactggct | gttccttgga | taaactaggc | ataataatac | ctatcctgct | 480 |
| gtgtgggtgg | aagggttaaat | gtgataatga | tgtgtgtgag | atgcctgcac | agtgcctgga | 540 |
| gggtattgaag | aattatttgc | tgccttttct | ttttctacct | accacttacc | cgctaccccc | 600 |
| gggtgctaca | tgtagaaaa | cactgtgtaa | agtgtggatg | cttctgaaaa | atctccctgc | 660 |
| cagcagttag | tgccaatagc | gtgcagaaaa | taagatgcaa | tgatttggtt | tcttttctgt | 720 |
| ttggcaataa | gaagcttatt | tgcacatagc | ctgatttctt | tcaatctgcn | | 770 |

<210> 331

<211> 1276

<212> DNA

<213> Homo sapiens

<400> 331

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| tcgaccacg | cgctccgccca | cgcgctcgct | taatatctgt | attcccagtt | gcctacggga | 60 |
| taaaagccca | aactccttag | cagagaatat | aaggccctag | ctccacatt | atctcagcag | 120 |
| tcatacccca | ctatgttctt | caagactgca | gccattaact | ttttagagtt | ccctaacaat | 180 |
| gctgtttact | ttcatgcctc | tatcccgttg | tctgtggaat | gacttccttc | cttgcccttt | 240 |
| tcagtgttac | aaacccttat | tctttaagac | atagtacaaa | tggcatctcc | tggttggcat | 300 |
| ctttcctgca | ggcctacagg | cctagtaagt | atcttctctc | tctgtgctcc | tgcatacctc | 360 |
| cattcctttg | ttatgacatc | tataacttta | ataagtacta | aaatctgtag | tcctacaaaa | 420 |
| ctcaggcata | gaactcattt | cctttatggy | tctataatgg | aactttaccc | aactctcacg | 480 |
| ttccccatga | ccacagatgt | ggaaaatttg | aactcttgaca | gttcaagggtg | aactcagtca | 540 |
| ttttcagagt | tttcatagtc | ccttcaagat | tgaaactcag | ttcctgcaat | gtttgccctt | 600 |
| tttctcctct | tttgtctatg | ctgggagagg | cattgtgggg | aggggtgtct | ggcttatggc | 660 |
| tcccattgtc | ctctgcttga | taaaccacct | gagcttttgt | cattagcagt | ctcctgtgcc | 720 |
| tttcacactc | aggtagtgtc | tgcacaggcc | actctatgtc | ttttccatgc | tgaagaaaatt | 780 |
| cttttccagg | ccatgtctgt | gttcctcctg | ccacacagga | aattttttgag | catgttcac | 840 |
| ctccaagctg | aatgcagggt | cttgggtagt | ggctctcacc | tgctccagag | acttctccag | 900 |
| ccattgccac | tctccactca | gggtatgaag | ctggatgagg | gactgcaccc | accagagtca | 960 |
| ggccagggtc | ctgtctgtct | tgtgagtcct | tccaattgtt | cttattccga | gatttccatt | 1020 |
| gttctgcccc | ctcttgactc | ccagggtctt | caagggagtg | ggggtagtga | agggagccct | 1080 |
| ttcccaagct | cccccaagag | ctctagtca | atcacttctg | atacttcttt | tcccaccagc | 1140 |
| tggaagaaaag | aactttcatt | tgtcttgaaa | tgagaaaaat | gttcttagaa | tattttgtat | 1200 |
| tactctctgc | tctgtcattt | atggtaaaaa | aaataaaaaa | ataaaaaaaa | aaaaaaaaaa | 1260 |
| aaaaaaaaag | gcggcc | | | | | 1276 |

<210> 332
 <211> 1237
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (942)..(942)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (949)..(1184)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1187)..(1187)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1194)..(1194)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1196)..(1196)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1218)..(1218)
 <223> n equals a,t,g, or c

<400> 332
 gcaacctggg cttttatata gaagaatacg aatcacaggt gtgtgagcat ctacttaatt 60
 aatttgctta cagccgattt cctgcttact ctggcattac cagtgaaaat tgttgttgac 120
 ttgggtgtgg caccttggaa gctgaagata ttccactgcc aagtaacagc ctgcctcatc 180
 tatatcaata tgtatttata aattatcttc ttagcatttg tcagcattga ccgctgtcctt 240
 cagctgacac acagctgcaa gatctaccga atacaagaac ccggatttgc caaatgata 300
 tcaaccgttg tgtggctaata ggctccttctt ataatgggtgc caaatatgat gattcccatc 360
 aaagacatca aggaaaagtc aaatgtgggt tgtatggagt ttaaaaagga atttgaaga 420
 aattggcatt tgcgtgacaaa ttcatatgt gtagcaatat ttttaaattt ctcagccatc 480
 attttaatat ccaattgcct tgtaattcga cagctctaca gaaacaaaga taatgaaaat 540
 taccctaatg tgaaaaaggc tctcatcaac atacttttag tgaccacggg ctacatcata 600
 tgctttgttc cttaccacat tgtccgaatc ccgtataccc tcagccagac agaagtcata 660
 actgattgct caaccaggat ttcactcttc aaagccaaag aggctacact gtcctggct 720
 gtgtcgaacc tgtgctttga tctatcctg tactatcacc tctcaaaagc attccgctca 780
 aaggctactg agacttttgc ctcacataaa gagaccaagg ctcagaaaga aaaattaaga 840
 tgtgaaaata atgcataaaa gacaggattt tttgtgctac caattctggg ctttattgga 900
 ccataaagtc tattatagct tggaagggtta aaaaaaaaaa anaaaaagnn nnnnnnnnnn 960
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1020
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1080
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1140
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1200
 cctgggttcc gggccccc nttaatccccgg gcgggggt 1237

<210> 333
 <211> 1045
 <212> DNA

<213> Homo sapiens

<400> 333

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|------|
| tcgaccacag | cgcccgagat | gcacgaactg | attaattcat | ttgttctagg | gctctgagga | 60 |
| gtcgtctact | taaccttttg | ggttgctggt | cttacctatg | ttctcacgcc | tccattttct | 120 |
| caccactca | ctcagccttc | tccattttacc | ctcccaagtc | tttgccgagg | tacactcatc | 180 |
| ctgcttatca | tactgccat | gtcctgatac | cccagctctg | ccatattgcc | cttctttttt | 240 |
| gcggtatgat | gaccacatag | aggcccaacc | tcttaaacac | atcaatacca | atgatcacat | 300 |
| ttcaatctag | acttctaagc | aacggctgaa | atctctccag | gccaaaggag | agtttgtatc | 360 |
| accttaccag | aagctttctcc | ggaacaattg | gccagaagcc | tagagtccag | aaaccagac | 420 |
| acatgcagta | agcaatttcc | agtttctcta | taatttagaa | gaggacacca | tgatatgtaa | 480 |
| tgcggggtct | ggaggttgga | atgcctccat | aaaacacctg | ccatattttt | tggtccaagc | 540 |
| cttagtgta | taaatcaaga | aggctgtaaa | taagacttca | gcyttttgtg | ctggtgaagt | 600 |
| ttgtttcctt | taacttatcc | tccaagagta | ccgaggcacc | gagatctacc | atttgccacc | 660 |
| tcatccattt | ctatggcaga | acaccgctg | gggagaggaa | ttcgattccc | cgaatcagga | 720 |
| tgactgtgtg | gggttctctg | aaaggttgca | tcacgagtc | tatttctgag | ctatctgaga | 780 |
| tccccattaa | gaatttaaaa | gcaataaaat | aacggagatt | tttgactatc | aacatgaatg | 840 |
| ctgtgtgggc | ttttacagtt | aatgattgcc | cttgagtgtc | gaataatctg | tgccctgaaa | 900 |
| aaagaaatgt | tcttatcttc | taaatttggt | aatcaagaac | aagatagagt | aatgaatgta | 960 |
| aaggaacact | gttgcaagtt | gagtgtttcc | aaaaaaaaaa | aaaaaaaaag | ggcggccgct | 1020 |
| ctagtaggat | accaagtctt | tacgt | | | | 1045 |

<210> 334

<211> 1223

<212> DNA

<213> Homo sapiens

<400> 334

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|------|
| gctgctccgt | ttttccccc | tctttgtggt | tttatctacc | tttggtcttt | gatgatgggtg | 60 |
| atgtacagat | ggggtttttg | tgtggatgtc | ctttctgttt | gttagttttc | cttctaacag | 120 |
| tcaggaccg | cagcttcarg | tctgttgagg | tttgctggag | gtccactcca | gacctctttt | 180 |
| gcctgggtat | cagcagcaga | agctgcagaa | cagcggatat | tggtgaacag | cagatgttgc | 240 |
| tgccctgatc | ttcctctgga | agttttgtct | cggagtaccc | agccatgtga | ggtgtcagtc | 300 |
| taccctact | gggggatgcc | tcccagttag | gctacttggg | agtcagggac | gcacttgagg | 360 |
| aggcactctg | tctgttctca | gatgtccagc | tgtgtgctgg | tagaaccagt | gctctyttca | 420 |
| aggctktcag | acagggacgt | ttaagtctgc | agaggattct | gctgcctttt | gtttggctgt | 480 |
| gccctgcccc | ccagaggtgg | agtcacaga | ggcaggcagg | cctccttgaa | ttgcgggtggg | 540 |
| ctccaccgag | ttcagatctc | ctggccgctt | tgtttaccct | ctcaagcctc | ggcaatgggtg | 600 |
| ggcgccctc | ccccagcctc | actgcgscet | tcagatttga | tctcagactg | ctgtgctagc | 660 |
| aatgaktrag | gctctgtggg | tgtagracc | tctgagccag | gcatgggata | taatctcctg | 720 |
| gtgtgcgatt | tgctaagacc | cattggaaaa | gcgtagtatt | aggggtgggaa | tgaccaatt | 780 |
| ttccaggtgc | cgtctgtcac | ccctttcttt | gactaggaaa | gggaattccc | tgaccggtg | 840 |
| tgcttcccgg | gtgaggcaat | gcctcgccct | gcttcagctc | aagcttggtg | cgctgcaccc | 900 |
| actgtcttgc | accacttttc | caacactccc | tagtgagatg | aaccgcgtac | ctcagttgga | 960 |
| aatgcagaaa | tcacacgtct | tctgcgtcct | cacgctggga | gctgtagact | ggagctgttc | 1020 |
| ctattcggcc | actttggctc | cacctgtcga | gatattttac | attaactttc | tatgacatac | 1080 |
| ttatagcaaa | acttattttt | tcatgcagaa | tagtctatat | tctatattta | ttgtaaagca | 1140 |
| tataccgtac | atgggtgacta | gtcaccatgc | tgtacaataa | atcttctgaa | cttaataaaa | 1200 |
| aaaaaawaaa | aaagggcggc | cgc | | | | 1223 |

<210> 335

<211> 1267

<212> DNA

<213> Homo sapiens

<400> 335

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcagcagct | gcagggcgcg | ggcgccgcca | agcgcaggga | gcccggctga | gtggcagccc | 60 |
| agattgaaga | tggatacgtg | acaatcccag | ggaccgctgc | actgacttca | tttccttaga | 120 |
| caagacacag | tgtagggccc | ggcccgtgtt | ggccccagga | ctccttttga | atatagctgt | 180 |
| ggacaatgaa | tcctgcgagc | gatgggggca | catcagagag | catttttgac | ctggactatg | 240 |
| catcctgggg | gatccgctcc | acgctgatgg | tcgctggctt | tgtcttctac | ttgggcgtct | 300 |

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|------|
| ttgtggtctg | ccaccagctg | tcctcttccc | tgaatgccac | ttaccgttct | ttggtggcca | 360 |
| gagagaaggt | cttctgggac | ctggcggcca | cgcgtagcag | cttgggtgtt | cagagcacag | 420 |
| ccgcagctgt | gggctctgct | gggggacct | gtgctgcatg | ccgacaaggc | gcgtggccag | 480 |
| cagaactggg | gctgggttca | catcacgaca | gcaacgggat | tcttttgctt | tgaaatgtt | 540 |
| gcagtccacc | tgtccaactt | gatcttccgg | acatttgact | tgtttctggt | tatccaccat | 600 |
| ctctttgect | ttcttgggtt | tcttgggtgc | ttggtcaatc | tccaagctgg | ccactatcta | 660 |
| gctatgacca | cggttgcctt | ggagatgagc | acgcccttta | cctgctgttc | ctggatgctc | 720 |
| ttaaaggcgg | gctgggtccga | gtctctgttt | tggaaagctca | accagtggct | gatgattcac | 780 |
| atgtttcact | gccgcatggt | tctaacctac | cacatgtggt | gggtgtgttt | ctggcactgg | 840 |
| gacggcctgg | tcagcagcct | gtatctgcct | catttgacac | tgttctctgt | cggactggct | 900 |
| ctgcttacgc | taatcattaa | tccatattgg | acccataaga | agactcagca | gcttctcaat | 960 |
| ccggtggact | ggaacttcgc | acagccagaa | gccaaagagca | ggccagaagg | caacgggcag | 1020 |
| ctgctgcgga | agaagaggcc | atagctgctc | cagccggggc | tccggggcgg | cagcagagct | 1080 |
| ggcacaccga | ttcttgggaag | ccccgcgaat | gatggctttt | gaattaatga | ggcagtgaat | 1140 |
| gttttgtgtt | tacttctaag | ggaaatacta | actttctttc | gcattagtat | taattttgaa | 1200 |
| gtagctacaa | agtattttta | agaaattata | attttatgac | tgtcaaaaaa | aaaaaaaaaa | 1260 |
| aaaaaaa | | | | | | 1267 |

<210> 336

<211> 3194

<212> DNA

<213> Homo sapiens

<400> 336

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|------|
| cacctcttcc | cctccccgcg | ttccctgtcg | cgctccgctg | gctggacgcg | ctggaggagt | 60 |
| ggagcagcac | ccggccggcc | ctgggggctg | acagtgcgca | aagtttggcc | cgaagaggaa | 120 |
| gtggtctcaa | accccggcag | gtggcgacca | ggccagacca | ggggcgctcg | ctgcctgcgg | 180 |
| gcgggctgta | ggcgagggcg | cgccccagtg | ccgagacccg | gggcttcagg | agccggcccc | 240 |
| gggagagaag | agtgcggcgg | cggacggaga | aaacaactcc | aaagttagcg | aaaggcaccg | 300 |
| cccctactcc | cgggctgcgg | ccgcctcccc | gccccagcc | ctggcatcca | gagtacgggt | 360 |
| cgagcccggg | ccatggagcc | cccctgggga | ggcggcacca | gggagcctgg | gcgcccgggg | 420 |
| ctccgcccgg | accccatcgg | gtagaccaca | gaagctccgg | gaccttccg | gcacctctgg | 480 |
| acagcccagg | atgctgttgg | ccacctcct | cctcctcctc | cttggaggcg | ctctggccca | 540 |
| tccagaccgg | attatttttc | caaatcatgc | ttgtgaggac | ccccagcag | tgtctttaga | 600 |
| agtgcagggc | accttacaga | ggcccctggt | ccgggacagc | cgcacctccc | ctgccaactg | 660 |
| cacctggctc | atcctgggca | gcaaggaaca | gactgtcacc | atcaggttcc | agaagctaca | 720 |
| cctggcctgt | ggctcagagc | gcttaaccct | acgtctccct | ctccagccac | tgatctccct | 780 |
| gtgtgaggca | cctcccagcc | ctctgcagct | gcccgggggc | aacgtcacca | tcacttacag | 840 |
| ctatgctggg | gccagagcac | ccatgggcca | gggcttcctg | ctctcctaca | gccaaagattg | 900 |
| gctgatgtgc | ctgcaggaag | agtttcagtg | cctgaaccac | cgctgtgtat | ctgtctgcca | 960 |
| gcgctgtgat | ggggttgatg | cctgtggcga | tggtctgtat | gaagcaggtt | gcagctcaga | 1020 |
| ccccttccct | ggcctgacct | caagaccctg | cccctccctg | ccttgcaatg | tcaccttgga | 1080 |
| ggacttctat | ggggtcttct | cctctcctgg | atatacacac | ctagcctcag | tctcccaccc | 1140 |
| ccagtccctg | cattggctgc | tggaccccc | tgatggccgg | cggctggccg | tgcgcttcac | 1200 |
| agccctggac | ttgggctttg | gagatgcagt | gcattgtgat | gacggccctg | ggccccctga | 1260 |
| gagctcccg | ctactgcgta | gtctcaccca | cttcagcaat | ggcaaggctg | tcactgtgga | 1320 |
| gacactgtct | ggccaggctg | ttgtgtccta | ccacacagtt | gcttgagaca | atggtcgtgg | 1380 |
| cttcaatgcc | acctaccatg | tgcggggcta | ttgcttgctt | tgggacagac | cctgtggcct | 1440 |
| aggctctggc | ctgggagctg | gcgaaggcct | aggtgagcgc | tgctacagtg | aggcacagcg | 1500 |
| ctgtgacggc | tcattgggact | gtgctgacgg | cacagatgag | gaggactgcc | caggctgccc | 1560 |
| acctggacac | ttcccctgtg | gggctgctgg | cacctctggt | gccacagcct | gctacctgcc | 1620 |
| tgctgaccgc | tgcaactacc | agactttctg | tgctgatgga | gcagatgaga | gacgctgtcg | 1680 |
| gcattgccag | cctggcaatt | tccgatgccg | ggacgagaag | tgctgttatg | agacgtgggt | 1740 |
| gtgcgatggg | cagccagact | gtgcggacgg | cagtgtatgag | tgggactgct | cctatgttct | 1800 |
| gccccgcaag | gtcattacag | ctgcagtcac | tggcagccta | gtgtgcggcc | tgtctctggt | 1860 |
| catcgccctg | ggctgcacct | gcaagctcta | tgccattcgc | acccaggagt | acagcatctt | 1920 |
| tgcccccttc | tcccgatgg | aggctgagat | tgtgcagcag | caggcaccct | cttctctacgg | 1980 |
| gcagctcatt | gcccagggtg | ccatcccacc | tgtagaagac | tttctctacag | agaatcctaa | 2040 |
| tgataactca | gtgtgggca | acctgcgttc | tctgtctacag | atcttacgcc | aggatatgac | 2100 |
| tccaggaggt | ggcccagggtg | cccgcgctcg | tcagcggggc | cgcttgatgc | gacgctggt | 2160 |
| acgccgtctc | cggcgctggg | gcttgcctcc | tccaaccaac | accccggtc | gggctctgga | 2220 |


```

ggccagatcc caggtcacac cttctgctgc tccccttgag gccctagatg gtggcacagg 2280
tccagcccggt gaggcgggg cagtgggtgg gcaagatggg gagcaggcac cccactgcc 2340
catcaaggct cccctcccat ctgctagcac gtctccagcc cccactactg tccctgaagc 2400
cccagggcca ctgccctcac tgcccctaga gccatcacta ttgtctggag tgggtcaggc 2460
cctgcgaggc cgctgttgc ccagcctggg gccccagga ccaaccgga gccccctgg 2520
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tgagccgggg gtgtgggtag ctgaggcaga ggatgagcca ctgcttacct gaggggacct 2640
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gggtgggtcag cctcccctcc accacttcct tccctgtccc tggatttcag ggacttgggtg 2760
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ctgctcccca cgccaccacc atttgggtgg ctgtttttaa aaagtaaagt tcttagagga 2940
tcataggtct ggacactcca tcttgccaa acctctaccc aaaagtggcc ttaagcaccg 3000
gaatgccaat taactagaga ccctccagcc cccaagggga ggatttgggc agaacctgag 3060
gttttgccat ccacaatccc tcctacagg cctggctcac aaaaagagtg caacaaatgc 3120
ttctattcca tagctacggc attgctcagt aagttgaggt caaaaataaa ggaatcatac 3180
atctcacctc gtgc 3194

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<210> 337

<211> 1258

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1196)..(1196)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1200)..(1200)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1237)..(1237)

<223> n equals a,t,g, or c

<400> 337

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nagatggcgc tacgtctgct gcggagggcg gcgcgcggag ctgcggcggc ggcgctgctg 60
aggctgaaag cgtctctagc agctgatatc cccagacttg gatatagttc ctcatcccat 120
cacaagtaca tcccccgag ggcaagtctt tatgtacctg gaaatgatga aaagaaaata 180
aagaagattc catccctgaa tgtagattgt gcagtgtctg actgtgagga tggagtggct 240
gcaaacaaaa agaataaagc tcgactgaga attgtaaaaa ctcttgaaga cattgatctg 300
ggccctactg aaaaatgtgt gagagtcaac tcagtttcca gtggtctggc ggaagaagac 360
ctagagaccc ttttgcaatc ccgggtcctt ccttccagcc tgatgctacc aaaggaggaa 420
agtcctgaag aaatccagtg gtttgcagac aaattttcat tccacttaaaggccgaaaa 480
cttgaacaac caatgaattt aatccctttt gtggaaactg caatgggttt gctcaatttt 540
aaggcagtgt gtgaagaaac cctgaaggtc gggcctcaag taggtctctt tctagatgca 600
gtcgtttttg gaggagaaga ctttcgagcc agcatagggt caacaagtag taaagaaacc 660
ctggatattc tctacgcccc gcaaaaagatt gttgtcatag cgaaagcctt tggctctcaa 720
gccgtagatc tgggtgtacat tgactttcga gatggagctg ggctgcttag acagtcacga 780
gaaggagccg ccatgggctt cactggtaag cagggtgattc accctaacca aattgccgtg 840
gtccaggagc agttttctcc tccccctgaa aaaattaagt gggctgaaga actgattgct 900
gccttttaaag aacatcaaca attaggaaag ggggccttta ctttccaagg gagtatgatc 960
gacatgccat tactgaagca ggcccagaac actgttacgc ttgccacctc catcaaggaa 1020

```

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| aaatgatctg | ttaaatgaag | ctgtcatcag | gctaaagggt | attgaagctg | cagagggatc | 1080 |
| aacttgctg | tgccagagga | cgccaatgaa | gtttgaaaca | ccaacaatca | gagattttgt | 1140 |
| ttctgttcct | cattaaatca | tgagcttttg | tgcccgagac | tctggacgga | ctgttncctn | 1200 |
| aggaatttaa | ccggatggga | agttttttaa | acttttncaa | ccaacttttt | taaggccc | 1258 |

<210> 338
 <211> 698
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|-------------|-------------|------------|-------------|-----|
| <400> 338 | | | | | | |
| gtctagttta | tgtttttcca | ctggacaggg | agctccttga | ggaccttgct | ttgctcgctg | 60 |
| ccccaccct | aaaacttgct | gtaaagcagt | tcctggaaca | gagcaggtgc | tcagtagtac | 120 |
| tggttgcatg | aatgaatgaa | tgaatgaata | ggttttcctc | ttttagacac | attggggagat | 180 |
| gggcctatgg | tttcctatgc | tcattttgac | ccagagattt | gtgtcctgtg | actcacatcc | 240 |
| agacccaaaa | cacacacata | cacacgcaca | cataaatata | cacacacaca | gacacgtgca | 300 |
| cacacagaca | cacatgcaca | cacacataca | cacaccttgg | tttgaagaga | agagggatgg | 360 |
| gaacagacat | tctacgcatg | cctacagtgc | accactgtgc | ataggtaact | gatgctgtat | 420 |
| aagcactcaa | ggatttatctc | cattttttagc | cagagaaaact | gaggcttgct | ttctgctgtg | 480 |
| tctccagtgc | ctagcactgt | gcctggcata | aacatctgct | gaactgaatt | gcactagatt | 540 |
| caagaggctc | agaaaacagt | tcaaggtcac | ccaactagca | agttgtggag | ccagaatctg | 600 |
| tgctcagggc | tgttcagtcc | ccagccagtg | ccgggtagca | gccataggca | cctgcacaaa | 660 |
| ctccagcgac | ctcgtaact | tccaaacacg | gtctcgtga | | | 698 |

<210> 339
 <211> 996
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (834)..(834)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (996)..(996)
 <223> n equals a,t,g, or c

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|-----|
| <400> 339 | | | | | | |
| gaattcggca | gagggaaatct | gggctctgtg | gaagaatagc | acttatctgg | attctggcct | 60 |
| tgtgccatga | acctaaagca | catccgtttg | gtctgccagt | aggctgggtat | ggcatgctgt | 120 |
| aaccctata | aatattatct | ctatttatcc | tgctcagtgt | gtttcctgta | acaaatcgtt | 180 |
| caagaaactc | tggtcccttc | atgaacatat | caagatcgtc | catggatatg | cagaaaagaa | 240 |
| atcttcctgt | gaaattttgtg | agaagaaatt | ctataccatg | gctcatgtgc | ggaaacacat | 300 |
| ggttgcacac | acaaaagaca | tgccattaca | tgcgaaacct | gtggaaaatc | attcaaacgc | 360 |
| atatgtcact | caagggtgcac | tccktgacgc | attctrgaga | gaagcccttt | agatgcgaga | 420 |
| actgtgacga | aagggtttcag | tacaagtacc | agctacgctc | ccacatgagc | attcatattg | 480 |
| ggcacaacaa | gttcatgtgc | cagtgggtgtg | gcaaggattt | caacatgaag | cagtacttcg | 540 |
| acgaacacat | gaaaacacac | actggagaga | aaccctttat | ctgtgaaatc | tgtggcaaaa | 600 |
| gcttcaccag | ccgccccaac | atgaagagac | accgcagaac | tcacacaggc | gagaagccct | 660 |
| atccatgtga | tgtgtgtggc | cagcggttcc | gcttctcgaa | catgcttaag | gcccacaagg | 720 |
| agaagtgcct | tcgggtgacc | agccccgtgg | aatgtgccac | ctgctgtcca | gatcccactt | 780 |
| acaacttccc | cagccacccc | agttccttct | gtgggtgaaca | cagccacaac | cccnaccctc | 840 |
| caatcaatat | gaatcctgta | agcactcttc | ccctcgggcc | atccccacc | ccttctcaca | 900 |
| ccgcacatcc | acccacaccc | tcaccaccca | caccamcttc | ccatccctcc | aktccctcac | 960 |
| ctcccgcac | ctccagctct | ctttaagagt | gagccn | | | 996 |

<210> 340
 <211> 974
 <212> DNA

<213> Homo sapiens

```

<400> 340
caggagtaaa gaactttatg agttcatgag aacctaaggc tcagtatttg aaaattactg      60
acttatgaga aagcaggcat gtaaataaaa aataaaaaat gttggcccta gattttgata      120
tgtgtgtggt gtgtggtgta ggagaggccc tgatatttac ctgtaagtgt tagagttgta      180
tgaaaaaggt ggcaagattg agtagcttag ggcatgtggt gtggaggctg tatgctagag      240
ttttggcatt aataacttgt attttctggg ttttggcatt aataatttgt attttctctc      300
cccaaatatt tttcaagcat ctacttcatg ccagaccttg ttctagatac cggagataca      360
acagcaaaaa tacagatctt gcccttatga agcttaaatt gttgaggcag gcagacagtg      420
ataaataaat acatagaatg ttgggaaaga aaataagagg atttgagagg gtggaatggg      480
gaagaaagga ttcactgata agatgccatt cgagctaaga cctgaaaagg tgatctctaa      540
ggtgaggaaa gagcttttcta cacagaagga acagctgggg gaagggagca cgcttggaat      600
atttaaggaa tatcaaggag ggaaaagtgg ctagagtaga ggaagagaat ggaagaagtc      660
atgtcaaaca ggtactaatg gaagaagtca tgtcagacag ggtcttgccc attgtaagga      720
ctttggcctt atacctcagc aagctgagca gccgtcgga tgttttaagc aaaagagtga      780
caccatcttt aaaagggacc ccttgtaagg attcagaaca gacttgaggg gaaaacaagt      840
agaagcagca gggggactag ttaggaggct gaggtgggag gattgcttgg gcctgggagg      900
ttgaagctgc agtgagtcac gatcactcca ctgcactcca gcctgggcga cagaaggaga      960
ccctgtctca gaaa

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<210> 341

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (248)..(248)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (328)..(328)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (357)..(357)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (372)..(372)

<223> n equals a,t,g, or c

<400> 341

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nggccattc gctgttggtg cttctgctag ggaggatgtc gggttcgctg ctgccagggg      60
ccctggccct ctgctgttg ctgggtctctg gctccctcct cccaggggcca ggcgccgctc      120
agaacgtgaa gagtacaatc tggacaggat cagaagtaga gaatgaagtt gtaaagagaa      180
aggggaaaga cagaagaaag gctgcagtag tacaaggaga aaagcaggat gcaagattga      240
aggaatgnaa tctttgtttg aggagcattc cggaaaatta taagctgttc agaaagggtt      300
aattagacca gggacctttt aagttaantt cacactcaaa gttaaaataa tgttgnggat      360
tcactcctgt gnaaaattgg gttagttttc atttgccctt ttaaacaaaa ctt          413

```

<210> 342

<211> 1010
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (607)..(607)
 <223> n equals a,t,g, or c

<400> 342
 gggtacttcc aagtcttgcc aactgtgaat aaagttgcta taaacatcta tgtacagggt 60
 ttttttggt gtggacctaa gttttcaact cctttgggtg ataccaagga gcacagtcac 120
 tgggacatat ggtaaggata tatttagttt ggcaggaaac caccatactg tcttccaaag 180
 tagctgtacc attttgcata cccaccagca ctgaatgaga gttcctgttg ctccacattc 240
 ttgtcagcat ttgatgttgt cagtgttctg aatttaggta gtcgatgatg gtgtgtaatg 300
 gtatctcact attattttaa tttgcctttc tctgatgatg tatgatgttg cagatcttct 360
 catatgctta tgtgacatct gtatatctgg tgaatgtct gctaaggctc tascctattt 420
 ttttaatargg atggttggtt tcccattggt gagttttaag agttccttat atattttgga 480
 tatttaataa tactacaaat aaacagtcct ttaacagata aatgttttgc aaatattttc 540
 tcttagcttg tggcttctgt ctttattccc ttgaagggtg ctgtcacaaa gcagtttatc 600
 ttttttncct tttttttttt tttgagacgt agtcttgctc cagcctgggt ggcagagcga 660
 rctacgtctc aagaaacaaa acaaaacaaa aaaacacctc agttgcgcgg caaggtkgct 720
 cacgcctgtg atcccatcac tttgggaggt cggaggtggg aggtgggaga atcgcttgag 780
 gccaggagtc catcctaggt ctacgttgac cctatctcaa caacaaaaaa ataacaatta 840
 gccaccgtg gtagtgcatt tctgtagtcc tagctactgg ggaggctgag gtgagaggat 900
 tgcttgagcc catgagtttg aggttacagt gggctataat tacaccactg cactccagtc 960
 tgagtgcacag agcaagaccg tgtctcaaaa aaaaaaaaaa aaaactcgag 1010

<210> 343
 <211> 1337
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1318)..(1318)
 <223> n equals a,t,g, or c

<400> 343
 cggggcttcg gcgccaggcc angcgctagt cggctctggt aggatttaca aaaggtgcag 60
 gtatgagcag gtctgaagac taacattttg tgaagttgta aaacagaaaa cctgttagaa 120
 atgtggtggt ttcagcaagg cctcagtttc ctcccttcag cccttgtaat ttggacatct 180
 gctgctttca tattttcata cattactgca gtaacactcc accatataga cccggcttta 240
 ccttatatca gtgacactgg tacagtagct ccagaaaaat gcttatattg ggcaatgcta 300
 aatattgcgg cagttttatg cattgctacc atttatgttc gttataagca agttcatgct 360
 ctgagtcctg aagagaacgt tatcatcaaa ttaacaagg ctggccttgt acttgaata 420
 ctgagttggt taggactttc tattgtggca aacttcaga aaacaaccct ttttctgca 480
 catgtaagtg gagctgtgct tacctttggg atgggctcat tatatatgtt tgttcagacc 540
 atcctttcct accaaatgca gcccaaaatc catggcaaac aagtcttctg gatcagactg 600
 ttgttggtta tctggtgtgg agtaagtgc cttagcatgc tgacttgctc atcagttttg 660
 cacagtggca attttgggac tgatttagaa cagaaactcc attggaaccc cgaggacaaa 720
 gggttatgtgc ttcacatgat cactactgca gcagaatggg ctatgtcatt ttccttcttt 780
 ggttttttcc tgacttacat tctgtatttt cagaaaaatt ctttacgggt ggaagccaat 840
 ttacatggat taaccctcta tgacactgca ccttgcccta ttaacaatga acgaacacgg 900
 ctactttcca gagatatttg atgaaaggat aaaatatttc tgtaatgatt atgattctca 960
 gggattgggg aaagggtcac agaagttgct tattcttctc tgaaattttc aaccacttaa 1020

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tcaaggctga | cagtaacact | gatgaatgct | gataatcagg | aaacatgaaa | gaagccattt | 1080 |
| gatagattat | tctaaaggat | atcatcaaga | agactattaa | aaacacctat | gcctatactt | 1140 |
| ttttatctca | gaaaataaag | tcraaagact | atgawawmaw | agttttttat | accttattta | 1200 |
| agagaaacaa | cctgacgtgc | accawtcagt | ctgcacatcc | caacccttca | cattttataa | 1260 |
| attattgtag | atcatgtttt | gttaggagcc | cttttatgga | gaggacattt | tcccatgnct | 1320 |
| taagtaatcc | agccttt | | | | | 1337 |

<210> 344

<211> 1420

<212> DNA

<213> Homo sapiens

<400> 344

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|------|
| ggcagcagca | caagctcaag | aggccgcttg | cacgcatgtg | gacactccat | gattctgctt | 60 |
| ctatctctct | ttcagggcgt | gcgaggcagc | ctgggctccc | ctggaaatcg | ggaaaacaag | 120 |
| gagaagaagg | tcttcatcag | cctggtaggc | tcccagggcc | ttggctgcag | catttccagc | 180 |
| ggcccatcc | agaagcctgg | catctttatc | agccatgtga | aacctggctc | cctgtctgct | 240 |
| gaggtgggat | tggagatagg | ggaccagatt | gtcgaagtca | atggcgctcg | cttctctaac | 300 |
| ctggatcaca | aggagctgca | gctggccggg | agctgttcat | gacagaccgg | gagcggctgg | 360 |
| cagaggcgcg | gcagcgtgag | ctgcagcggc | aggagcttct | catgcagaag | cggctggcga | 420 |
| tggagtccaa | caagatcctc | caggagcagc | aggagatgga | gcggcaaagg | agaaaagaaa | 480 |
| ttgccagaa | ggcagcagag | gaaaatgaga | gataccggaa | ggagatggaa | cagattgtag | 540 |
| aggaggaaga | gaagttaag | aagcaatggg | aagaagactg | gggctcaaag | gaacagctac | 600 |
| tcttgccctaa | aaccatcact | gctgaggtac | acccagtacc | ccttcgcaag | ccaaagtatg | 660 |
| atcagggagt | ggaacctgag | ctcgagcccg | cagatgacct | ggatggaggc | acggaggagc | 720 |
| agggagagca | ggatttccgg | aaatatgagg | aaggctttga | ccctactct | atgttcaccc | 780 |
| cagagcagat | catggggaag | gatgtccggc | tcctacgcat | caagaaggag | ggatcccttag | 840 |
| acctggccct | ggaaggcggg | gtggactccc | ccattgggaa | ggtggttgtt | tctgctgtgt | 900 |
| atgagcgggg | agctgctgag | cgcatggtg | gcattgtgaa | aggggacgag | atcatggcaa | 960 |
| tcaacggcaa | gatttgtaca | gactacaccc | tggctgaggc | tgacgtgcc | ctgcagaagg | 1020 |
| cctggaatca | gggcggggac | tggatcgacc | ttgtggttgc | cgtctgcccc | ccaaaggagt | 1080 |
| atgacgatga | gctgaccttc | ttctgaagtc | caaaagggga | aaccaaattc | accgttagga | 1140 |
| aacagtgaag | tccggcccca | cctcgtgaac | acaaagcctc | ggaccagcct | tgagagaggc | 1200 |
| cacactattc | ctttcctctg | gccagtgaa | tttggctctc | cccagctctg | ggggactcct | 1260 |
| tccttgaacc | ctaataagac | cccactggag | tctctctctc | tccatccctc | tcctctgccc | 1320 |
| tctgctctaa | ttgctgccag | gattgtcact | ccaaacctta | ctctgagctc | attaataaaa | 1380 |
| taaacagatt | tattttccag | cttaaaaaaa | aaaaaaaaaa | | | 1420 |

<210> 345

<211> 1674

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1663)..(1663)

<223> n equals a,t,g, or c

<400> 345

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| cccgagcagc | tgagtccctt | ccctgtcttt | cactcttctg | gcacggtgg | ttttacttct | 60 |
| tcgattgaac | cctgcttctt | cgacccccct | gggaggccgc | cttcttcagg | cgctccctt | 120 |
| ctctccacga | gctcgctctg | acagctgagg | aactggcaag | atcctgctac | ccagagggtg | 180 |
| aatgggtatc | tttcccgaa | taatccta | ttttctaagg | gtgaagtttg | caacggcggc | 240 |
| cgtgattgta | agcggagtaa | gcaaacacct | ccattgtatt | agtcaccaga | aaagtaccac | 300 |
| tgtaaagtc | gagatgtctg | gtctgaattg | gaaacccttt | gtatatggcg | gccttgccctc | 360 |
| tatcgtggct | gagtttgga | ctttccctgt | ggaccttacc | aaaacacgac | ttcaggttca | 420 |
| aggccaaagc | attgatgcc | gtttcaaaga | gataaaatat | agagggatgt | tccatgcgct | 480 |
| gtttcgcatc | tgtaaagagg | aaggtgtatt | ggctctctat | tcaggaattg | ctcctgcggt | 540 |
| gctaagacaa | gcacatcatg | gcaccattaa | aattgggatt | taccaaagct | tgaagcgctt | 600 |
| attcgtagaa | cgtttagaag | atgaaactct | tttaattaat | atgatctgtg | gggtagtgct | 660 |
| aggagtgata | tcttccacta | tagccaatcc | caccgatgtt | ctaaagattc | gaatgcaggc | 720 |

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------|
| tcaaggaagc | ttgttccaag | ggagcatgat | tgggaagcttt | atcgatatat | accaacaaga | 780 |
| aggcaccagg | ggtctgtgga | gggtgtggt | tccaactgct | cagcgtgctg | ccatcgttgt | 840 |
| aggagtagag | ctaccagtct | atgatattac | taagaagcat | ttaatatgt | caggaatgat | 900 |
| gggcgataca | attttaactc | acttcgtttc | cagctttaca | tgtggtttgg | ctggggctct | 960 |
| ggcctccaac | ccggttgatg | tggttcgaac | tcgcatgatg | aaccagaggg | caatcgtagg | 1020 |
| acatgtggat | ctctataagg | gcactgttga | tggatattta | aagatgtgga | aacatgaggg | 1080 |
| cttttttgca | ctctataaag | gattttggcc | aaactggcct | cggcttgagc | cctgggaacat | 1140 |
| catttttttt | attacatacg | agcagctaaa | gaggcttcaa | atctaagaac | tgaattatat | 1200 |
| gtgagccag | ccctgccagc | ctttctactc | ctttgccctt | ttcccggtgt | ctaagtgtat | 1260 |
| ttgacaatgt | tgtaatgtgt | taccaagccg | ttgtgtctct | aagggcctcc | tgtatggaaga | 1320 |
| acagtggggt | ggttcaaagt | tatttctatg | ttgtgtttac | catgttaact | tttccccgag | 1380 |
| agaaagtgtt | aacattgaga | ctctggcccc | agattgggtat | cttctatgaa | gatggatact | 1440 |
| gatgggtgac | attgaaaacg | gcctgtcttc | caaatgtggt | taaatgtaat | tggtagagcc | 1500 |
| cagacttggg | ctagagcaga | aggcataggg | cagggtgtgt | attgctatat | gtgttacaga | 1560 |
| cctcggttct | cattaaagta | tttattggca | gaatcaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1620 |
| aaactcgagg | gggggccccg | taccaaatc | gccctatggt | gantcgaatg | ggct | 1674 |

<210> 346

<211> 921

<212> DNA

<213> Homo sapiens

<400> 346

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| ggaactgctg | ctcatggaac | tggctcctct | cctcttgcca | cttgagtctg | ttcgagaagt | 60 |
| ccaggggaaga | acttgaagag | caaaaatacac | tcttgagttt | gttgggtttt | gggagaggtg | 120 |
| acagttagaga | agggggttgt | gtttaaaata | aacacagtgg | cttgagcagg | ggcagaggtt | 180 |
| gtgatgctat | ttctgttgac | tcctagcagc | catcaccagc | atgaatgtgt | tcgtagggcc | 240 |
| tttgagtgtg | gcgattgtca | tattctgttg | gataacaatg | tattgggtgt | cgattgtcat | 300 |
| ggggcagggg | agagggcagt | acacctggag | gaccttttg | tccacatcga | caccatcagt | 360 |
| ctgctcttag | aggatgccct | ggagtattcg | gcgttgattg | cggggcacc | gaaatcagac | 420 |
| ttggccacctg | gactgtcgag | gtgcagaccc | tgggagcacc | actggcccat | ctcttacaca | 480 |
| ggctgaccga | tttctcctgg | tggtcagagt | ctgtttttgt | ctagcaccat | ttgaaatcgg | 540 |
| ttatgatgta | gggggaaaag | cagcagcctc | gaagcctcat | gccaaactctg | ggcagcagca | 600 |
| gcctgtgggt | tcctggaaga | tggatgggca | gagaataggg | aaggaagatc | atgcttttcc | 660 |
| ctactaactt | ctgtaactgc | atgtatgata | cattatttga | gaggttaagag | atagttaaat | 720 |
| ggatttttaa | aaacaaatta | ctataattta | tctgatgttc | tctagtgtga | ttttgctgaa | 780 |
| atgtagtgtc | gttctaaatt | ctgtaaattg | attgctgttg | aattatcttt | ctgttgagaa | 840 |
| gagtctattc | atgcatcctg | accttaataa | atactatggt | cagttaaaaa | aaaaaaaaaa | 900 |
| aaaaaaaaaa | aggcgggccg | c | | | | 921 |

<210> 347

<211> 822

<212> DNA

<213> Homo sapiens

<400> 347

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| ccgggttgac | ccacgcgtcc | gcggacgcgt | gggcaaatat | tggtaatgct | gggaaaagg | 60 |
| agttcagaat | gccaaaacgt | ttctggtttt | atttgtcttg | ggtgaggacc | cagaggggtg | 120 |
| ggagatggag | gtgtgagcag | catgggtctg | tgtggttttt | tcttgttgtg | gagtagagtt | 180 |
| agatcataca | tgaagctctc | tgggcatagg | tggagtagca | gctgtccaca | ccattgtctat | 240 |
| tcaaagtgtg | gtttgcacac | cagtaatgga | aaatcatctg | tgcacactgt | ttagtttaac | 300 |
| tgatactttt | tttttcatag | caagatttct | taatgaagga | agtaatgtat | tgatttacat | 360 |
| tctgactcat | tgtctttatc | ttgtctttga | tcagttttga | gactggcact | ggtccacact | 420 |
| ttgaataaca | ctattcttca | ttctactttc | catgtaccgg | gatgccaggc | aaacagggag | 480 |
| ttttacgctg | ggtgggagaac | ggaacattct | gctgactcct | tgaaggggct | tatctcacca | 540 |
| ggcatggtag | ctcacgactg | taatcccagc | tctttgggag | gctgaggtgg | gaggattgct | 600 |
| tgagctcagg | agtttgagac | cagcctgggt | aacataggga | taccttgtcc | ctacttaaaa | 660 |
| aaaaaaaaaa | aaaaattagc | tgggtgtggt | tgtgcacacc | tgtagtcca | gctattccar | 720 |
| aggctgaggc | aggaggatag | gttgagcatg | ggargttgag | gctgcartgt | gccttgatgg | 780 |
| cgccactgca | ctccatcctg | gttgacaaaa | aaaaaaaaaa | aa | | 822 |

<210> 348
 <211> 706
 <212> DNA
 <213> Homo sapiens

<400> 348
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 tcattgccagg cccctgcctc tcacagcagc accctttcct ctcatgtgcc ctgttccctt 120
 tttgcctgtg gatctgtttg gccagggtcc ctggggctcag gaatatattgc aagactcagc 180
 cagctccttc ccagcccagc ctcttggggc tgggactttc tcacctgcg gcaggcacia 240
 cagatgctgg gaccagttct ctgccaggt cacagcacia gtgcacatca gcactatggg 300
 gcctatgtcc tgcccagaga cctctgtctc ttcctgtctc catccacagt tcagggcacg 360
 gcgcccctca agaactccag agtcacctgt ctcatcggt cccagcaagt gcctctttgt 420
 ctatgatgtc ccccttctct gaggcctgga cccaccatc tttgtccctg gggcctgtct 480
 ccagccactg aggcccgctc tggccagggg agaaggagct gccgtgcgtc ttccctgtgc 540
 cccgtctccc tgcttgggtc tccccctcct tccctggcgg gctgccatgg ccaggagcta 600
 agtgcctttt tgtgtgcaac cacttaccct ttctctgaaa aacctgttct caggaaggat 660
 ctgataaact catttactct yaaaaaaaaa aaaaaaaaaa aaaaaa 706

<210> 349
 <211> 1726
 <212> DNA
 <213> Homo sapiens

<400> 349
 cgtctgatta aggtaccttt tgggaaatta aggttctata gaaattactg ggctcaatct 60
 agtgatacaa atatgtgttg tttgatttat caacacatta caaaccttaa ctttggagtt 120
 ttaatatctg gttatcttta atatctggtt atcttctttc tgaagtgtat gtacacaaaa 180
 ttgatgctaa ataaggtctt gttgttttgg caaatagtga aatgcaagggt attggtagat 240
 cagtactgtt ataacttttg tgcaaggttg ctgcatgcag attggctgtg ggaccttgtt 300
 cattttttga gaactaatgt agagtttgaa aaaacaccgt aagcctgcat tccagaagtt 360
 ctggtatgga tagtgtgagc ccagggaatg tgcttagata aaagatcatt taacaaaatg 420
 gttttgcatt tttttagcaa tcaggctttg tgctgaatat tagagtgggt gtttcagaga 480
 gtttgcagca attaggcttt attggtgcac taaggagaag cagagaggag aagcaattct 540
 tggtaacttc cttggaagtt gcagctaact ctgaaaagtc tgggttgaac taggtaagta 600
 actaatccct agaatcaata aactttgcag gagtccgttt gattgtacat gttagctcct 660
 ggaattgcta ttggtcccta aatcatcagt ttgtaatgct ggttttcaa cttgagtga 720
 catcaagttt tggaggactt gttagaatac agattgctgg gctcaccctc agagtttctg 780
 atctggtagg tctggagcgg gacctggtag attgcatttc taaaaagcat ccaggtaata 840
 ctgctgctgt ttgggaaagt acctttgaga tcaactggctt acagcaatct caagggtgtt 900
 ggattttggg caggggtgct gtgcaggcgt tgctgggatc tcttcacagc actccactgc 960
 atagagggtg gcctccagat gttttcattc attcaacaaa tatatgtacc tattgtgtgc 1020
 tgggcactgc ttaagtgtcg aggggatatt gtgaagaaag taagcaaaac ccctttgttt 1080
 gtagaatttc agtgagcata gtcctgggtt aacctgacaa cagtcctact gtttattgat 1140
 gcttatagggt gagcctattt ctctttctag ctttcttcca cttaatctac tttcttttgg 1200
 aattcttgaa ttttaataata ataattattg tgttattagt catcactata actttttatt 1260
 gagtatgtat tttatgtcag acacagtgtg gctaagtgtt ttacatacat tatctcatct 1320
 aatccttaga aaaaaccctg gtgtattagt cttaatttaa aagatgtact ttggaaagggt 1380
 tagtagttta cccaagatta tgcaagtagt taaaagtggg gctggggctg ggcttgggtg 1440
 ctcacacctg taatcgagc gctttgggag tctgaggcag gaggatcgct tgacaccagg 1500
 agtttgagac taacctggga aacatagcaa gaccccatct ttacaaaaaa taaaaaaatt 1560
 agccaggagt gggggtgcac acctgtgggt ccagctactt gggaggctga ggcaggagga 1620
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 ctgggtgaca gagcaagatc ctgtctccaa aaaaaaaaaa aaaaaa 1726

<210> 350
 <211> 1283
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (341)..(341)
 <223> n equals a,t,g, or c

<400> 350

| | | | | | | |
|-------------|--------------|-------------|-------------|------------|------------|------|
| gaattcaaaag | tttaccacaaat | gtgcaaaaatg | agcaggtttta | ccttaggatt | attattttta | 60 |
| tttatattta | ctactgcaga | aaattatttg | attctttttc | agagaaaata | ctgtttgggt | 120 |
| atattttggg | gggagttttg | aatttcacat | acgaaaagaa | taacacagcc | ctttcaaact | 180 |
| gcctgtgttt | caacctgcaa | agtttttttt | gtgctaaaga | tttgagcttt | gtgaaggatt | 240 |
| ccctttttgt | tccttcttct | ccagcaatct | cagctacctg | ggcgctctct | ctaagtattt | 300 |
| ctgggggttc | gtgccagggg | tcggcaggac | aagtgtttca | nttgaagctt | catttggttt | 360 |
| ggagtctctt | cctcytctga | gccwacaaag | ctcgggtcca | cgggtactct | gscaaaattc | 420 |
| atcatcttag | ttaggcattt | ggcagaatag | gtgaggcagg | gatgaatctt | taacaaatgt | 480 |
| taatgttgct | ttgctgggaa | tgtgcagagg | ggcatccaag | atgagcacac | atttaaaagt | 540 |
| aaacacatga | ataagtggca | gtagaattta | ttttgcaact | ctgagtgtta | cagtgtctac | 600 |
| tgaattcagt | gtattccacg | ttcttattac | aactaaagac | tgggtagaac | ggacttctct | 660 |
| taactatgca | aagggaaaaa | ccaagacaag | attccgcagg | ctgctgtgtg | aaaggggtgt | 720 |
| tatcatgcag | atgtcatcct | aacagattag | cagagggaag | tggaaatgtt | cgaggatgtt | 780 |
| caatgccmcg | ttgttggttw | trgcaamcc | actggaaaca | mcacaggagt | ctaaaaatag | 840 |
| aggcctggta | gggaaaaatg | tacagctacg | gaatgcaata | ctattgaagc | attagaamca | 900 |
| atgagcttct | gacagcccca | gagagttatt | cataatgtgt | agttaattta | aaaaagaaag | 960 |
| tcgagagtca | gactctacaa | gggcataata | cgccattttg | gtaaagaaaa | tgtgtatgta | 1020 |
| gatattgtaa | tagatttgga | tacgaattat | tgtatatagc | aaggaagagt | gccaaagcct | 1080 |
| acataccacg | cttttaatat | tttttaattc | tcgttattaa | agaaagattg | agggagatgg | 1140 |
| gatttctgtt | tttattttat | acaaatctgc | attgtttgaa | tttttttttt | ttttacgaca | 1200 |
| agctgttatt | tctctgggga | gtttaaaaaa | aatacaaaaa | aaagggaatt | cgatatcaag | 1260 |
| cttatcgata | ccgtcgacct | cga | | | | 1283 |

<210> 351
 <211> 1552
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1035)..(1035)
 <223> n equals a,t,g, or c

<400> 351

| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|------|
| ttgcctaagg | cccactgtgc | caaattagat | aatacaagaa | gttcattttac | actgtagacc | 60 |
| agtgcgtca | atgactgttt | gctctgtgat | accgtttcaa | aaatccaaaa | tgcagacttt | 120 |
| tctctgtgcc | atgcaggatg | cagctgtgtg | tgatatgggt | tacagtaata | tttctttctc | 180 |
| aaagtagcag | gcttggttaag | gaaaagataa | gcaacacatc | tggggaaaag | ggcagggtggc | 240 |
| cagcaatcga | tgtggtagct | ctttgcccct | ctcggacagc | aggaattagc | ttccccaggc | 300 |
| attttctgta | tgtgagttgt | attgtgggat | gtacaaatat | catctgttcc | tttgggtttc | 360 |
| caggccagta | gctctctatt | ttgggttcaa | acatgggttc | tcaggccggg | cgcggtgggt | 420 |
| cacgcgtgta | atccccgcac | tttgggaggc | caaggcgggc | ggatcacgag | gtcgggagat | 480 |
| ggagaccatc | ctggctaaca | tgggtgaaacc | ccaactctac | taaaaataca | aaaaattagg | 540 |
| caggcatggt | ggcgggtgcc | tgtgktcccg | gctactcagg | aggctgaggc | aggagaaatg | 600 |
| tgtggaccgg | ggaggttgga | ggttgacgta | agccgagatt | gcaccactgc | mctccagcct | 660 |
| gggcaacaga | gcgagactcc | atctcaaaaa | acaaacaaac | aaacaaacaa | aaacatgggt | 720 |
| tctcaaaagg | catgccact | gtctcccatg | gagcttgaca | gccccatgcca | ttagctctca | 780 |
| ctgttaggtt | tctggggaag | gttcttctac | ttgattggaa | aatttccaaa | taaatctttc | 840 |
| cagaagatac | tatgcacaca | gctaagtggc | ctgtctgtgg | agtaaccctt | ttgtaaacaa | 900 |
| acagaaacct | aaagcttgat | gttttggggg | gctgcctgtc | atctataggt | tcatttaggt | 960 |
| gtatttagga | agaggatcca | tgaaaccact | ggtttcctgt | tacataataa | tcattaataa | 1020 |
| tgatttaaaa | tgtgnacatt | gatttttttr | aattccraaa | tacaagcgta | tatggtawat | 1080 |
| taagtcaaat | ggtatgttca | gtgagcgaga | tggggcttgg | ggcaaaacaa | tactttgctt | 1140 |
| ccaaagagga | tacaactctc | aaggagattc | tttcatcttg | cctttaaggt | catttaaact | 1200 |
| aattcacata | atcttcagaa | aactaattca | catcatctat | tcatgtgtaa | aatcaaaagg | 1260 |
| aagactgttt | tcttagtctc | tcgttgccca | actggccatt | tatactacta | ggttgattaa | 1320 |


```

gggatttgcc tttttctgct gatatgggaa caaaaagtct taagcatttt taaaggcaat 1380
ggaaaaattca gccacatggg ggaaaaattga tattgtcacc attgagttgc tctgtttctt 1440
gggtgaagagt gaatctaatac tgatttcctt cttcatcaga tatgcctctt taacaacaaa 1500
aaaaaaaaaa aaggaattcg atatcaagct tatcgatacc gtcgacctcg ta 1552

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<210> 352

<211> 1563

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (14)..(14)

<223> n equals a,t,g, or c

<400> 352

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gcttttgggg cagagttttc atcggaggca tgcagagagt taggcttttc tagcaacttg 180
ctttgcagct cttgtgatct tctcggacag ttcaacctgc ttcagctgga tcctgattgc 240
agaggatgct gtcaggagga agcacaattt gaaacaaaa agctgtatgc aggagctatt 300
cttgaagttt gtggatgaaa attgggaagg ttccctcaag tccaagcttt tgtaggaggt 360
gataaaccga aactgttcag aggactgcaa atcaagtatg tccgtgggtc agaccctgta 420
ttaaagcttt tggacgacaa tgggaacatt gctgaagaac tgagcattct caaatggaac 480
acagacagtg tagaagaatt cctgagtga aagttggaac gcatataaat cttgcttaaa 540
ttttgtccta tccttttggt accttatcaa atgaaatatt acagcaccta gaaaataatt 600
tagttttgct tgcttccatt gatcagtcct ttacttgagg cattaaatat ctaattaaat 660
cgtgaaatgg cagtatagtc catgatatct aaggagttgg caagcttaac aaaaccctt 720
ttttataaat gtccatcctc ctgcatttgt tgataccact aacaaaatgc tttgtaacag 780
acttgcggtt aattatgcaa atgatagttt gtgataattg gtccagtttt acgaacaaca 840
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aaatggctgt aatatttaaa acttataaca tcttattgtt ggtaatagtg ctttatattt 1440
gtctgatttt atttttcaaa gttttttcat ttatgaacac attttcattg gtatattatt 1500
taaggaatat ctcttgatat agaattttta tattaataat gattttttct tgcttaaaaa 1560
aaa 1563

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<210> 353

<211> 756

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (230)..(230)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (755)..(755)

<223> n equals a,t,g, or c

<400> 353

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gtgtgcccag aagatagccc tctctcttct gtgcttccag aatccgtagn caggggaatag 240
gaatacatgg acaagtagca tgcagtgcag tgagaatgta taacaacaga tgactctggg 300
gacaaaaatc aaatggggcc agctacaaag agggcaggaa atccccacag gtgattttac 360
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gaaaaagtga gcagatactc tgatgatgagc aatataactt aggtgtaaaa aaaaaaggaa 720
ttcgatatca agcttatcga taccgtcgac ctcgna 756

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<210> 354

<211> 1402

<212> DNA

<213> Homo sapiens

<400> 354

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ggcgagtaca cgaatggctt tcttactaga gagaagtggg accctgcta tctgtagcat 180
gtgggtggcat catggttact caaatatcac tggaacagaa ggtgaaagaa gaaatctgaa 240
gagaaaataa acaaattttc ggcggttcca agatggccga ataggaacag ctccagtcta 300
cagctcccag tgtgagagat gcagaagatg ggtgatttct gcatttccaa ctgagcaaac 360
ggcacaccag aagattatat cccatgcctg gctgggaggg tcccatgccc acggagcctc 420
gctcattgct agcacagcag tctgagatcc atctgcaagg tggcagtgag gctgggggag 480
gggcacccac cattgctgag gcttgagtag gtaaacgaag cagccaggaa gctcgaactg 540
ggtggagccc accgcagctc aaggaggcct gcctacctct gtagactcca cctctcgggg 600
cagggcatag ccaaacaaaaa ggcagcagaa acctctgcag acttaaatgt cctgtctgta 660
cagctttgaa gtgagtagtg gatctcccag cacggagttt gagatctgag aacggacaga 720
ctgccccctc aagtgggtcc ctgaccctcg agtagcctaa ctgggaggca cctccagta 780
ggggcagact gacacctcac acagctgggt acccctctga gatgaagctt ccagaggaa 840
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<210> 355

<211> 2270

<212> DNA

<213> Homo sapiens

<400> 355

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<210> 356

<211> 1123

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (213)..(213)

<223> n equals a,t,g, or c

<400> 356

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<210> 357

<211> 1417

<212> DNA

<213> Homo sapiens

<400> 357

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| atgtgtgtat | gcatgcatgc | ttatgcatgt | gtgtgtgcat | gcatgcttgt | gtgtgtgtgt | 180 |
| gtgtgtgtgt | gtagagcctt | ggatcatccc | acagagcaaa | gacacaggag | gggtggcacat | 240 |
| ggaagaacaa | gtgactccac | cctcccttgc | acagttaaaa | tctggccaag | tgagagggga | 300 |
| gatgggagag | gggagagggg | agaaaaggaga | agaggcactg | actggagggg | ctgaagcttt | 360 |
| gtccctcctg | ggcaggcggt | ctccatccac | acccctcttc | ttggatagag | aggataagca | 420 |
| ggccaaagat | gcacgaaacc | tgagtccac | tgtagctcca | gacttctaga | aaagtcaaca | 480 |
| gcccctgtat | ctctagctga | tcctctgttg | ttcaatgtct | gcattaccgc | actgggagac | 540 |
| acttgacaga | ttgggcctgc | cgcaggccat | agcagacatt | gggcagccct | agaacgaagc | 600 |
| tgactgtcct | tggaaatgtg | cacaggggtg | tgacgccccg | gccaactcca | gtgctgccta | 660 |
| aaatggcctc | ttgcaacatt | cccctctctt | catcttaa | cagggacttg | aagccacaaa | 720 |
| atggcaata | cacagttctg | gcagtcgttt | tgagtattgg | agaaatcgct | ctggccatct | 780 |
| gttttgtctc | cagcatgttt | ctcacggaat | atccacggat | atatccatgg | atataacaga | 840 |
| catcctgcca | aggcagagct | tggctcttga | gaactcggca | agctcagtc | ttgcctggat | 900 |
| tcctgcctca | tgtcccatac | agtgtttgga | gaaaagctct | gagagaaaga | tgaatgtctg | 960 |
| aggccacaca | gcctagaagt | agtcaagagc | acaggctcta | gaactagccc | cacgtgggct | 1020 |
| gaaatcccag | caccagcgcc | tgccggctgt | gtgatgtagg | agagcttctt | accagctctg | 1080 |
| tgctcactt | gtctcacttg | taaaatgaga | ataagaattg | gccgggctcg | gtggctcacg | 1140 |
| cttgtaatc | cagcacttcg | ggaggctgag | gtggcggtat | cacttgaagt | caggagtcca | 1200 |
| agaccagtct | ggccaacgtg | gtggaaaccc | cgctcttgcc | aaaaatacaa | aaattagcca | 1260 |
| ggcgtgggtg | cgggcacctg | cagtctcagc | tactcaaaag | gctgaagcag | gagaatcgct | 1320 |
| tgaacctggg | aggtggaggc | tgctcagtga | ccaagatcac | accactgcac | tgcagcctgg | 1380 |
| gtgacagagc | aagactctgt | ctcaaaaaaa | aaaaagg | | | 1417 |

<210> 358

<211> 3388

<212> DNA

<213> Homo sapiens

<400> 358

| | | | | | | |
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| agccacgacc | ttatgtcagg | tttctggaat | gcctgtctatg | acatgcttat | gagcagtggt | 120 |
| cagcggcgcc | agtgggagcg | cgcccagagt | cgctgggcct | tccaggagct | gggtgctgga | 180 |
| cctgcgcaga | ggcgggccc | cctggagggg | ctacgctaca | cggcagtgct | gaagcagcag | 240 |
| gcaacgcagc | actccatggc | cctgctgcac | tggggggcgc | tgtggcgcca | gctcgccagc | 300 |
| ccatgtgggg | cctgggctgt | gagggacact | cccatcccc | gctggaaaact | gtccagcgcc | 360 |
| gagacatatt | cacgcatcg | tctgaagctg | gtgcccac | atcacttcga | ccctcacctg | 420 |
| gaagccagcg | ctctccgaga | caatctgggt | gaggttcccc | tgacacccac | caggagggcc | 480 |
| tcactgcctc | tggcagtgac | caaagaggcc | aaagttagca | ccccaccgga | gttgctgcag | 540 |
| gaggaccagc | tcggcgagga | cagctggct | gagctggaga | ccccgatgga | ggcagcagaa | 600 |
| ctggatgagc | agcgtgagaa | gctgggtgctg | tcggccgagt | gccagctggg | gacggtagtg | 660 |
| gccgtgggtc | cagggtgct | ggaggtcacc | acacagaatg | tatacttcta | cgatggcagc | 720 |
| actgagcgcg | tggaaaccga | ggagggcatc | ggctatgatt | tccggcgccc | actggcccag | 780 |
| ctgcgtgagg | tccacctgcg | gcgtttcaac | ctgcgccgtt | cagcacttga | gctcttcttt | 840 |
| atcgatcagg | ccaactactt | ctcaacttc | ccatgcaagg | tgggcacgac | cccagttcta | 900 |
| tctcctagcc | agactccgag | accccagcct | ggccccatcc | cacccatac | ccaggtagcg | 960 |
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| cgctcccccc | aggagatgct | gcgtgcctca | ggccttacc | agaaatgggt | acagcgtgag | 1080 |
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| ctgtctcagt | accctgtgtt | cccctgggtc | ctgcaggact | acgtgtcccc | aacctgggac | 1200 |
| ctcagcaacc | cagccgtctt | ccgggacctg | tctaagccca | tcggtgtggt | gaacccaag | 1260 |
| catgcccagc | tcgtgaggga | gaagtatgaa | agctttgagg | acccagcagg | gaccattgac | 1320 |
| aagttccact | atggcaccca | ctactccaat | gcagcaggcg | tgatgcacta | cctcatccgc | 1380 |
| gtggagccct | tcacctccct | gcacgtccag | ctgcaaatg | gccgcttga | ctgctccgac | 1440 |
| cggcagttcc | actcgggtgc | ggcagcctgg | caggcacgcc | tggagagccc | tgccgatgtg | 1500 |
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<210> 359

<211> 1965

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (333)..(333)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1961)..(1961)

<223> n equals a,t,g, or c

<400> 359

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<210> 360

<211> 1382

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1339)..(1339)

<223> n equals a,t,g, or c

<400> 360

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<210> 361

<211> 1755

<212> DNA

<213> Homo sapiens

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<400> 361
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aaaaaaaaa aaaaa 1755

```

<210> 362

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (547)..(547)

<223> n equals a,t,g, or c

<400> 362

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ncgaaaatga gaaaggtaac aatttcgaaa aagcatgccc ttctgctgtg tttccagttg 60
tttagatgtc tgctctccat gtatatatgg atcacattcg tgtagatgg aagttgtgaa 120
tccactgttc tctcaaaccg gtctctttcc cttgtacctc tcatagtgtg catagctcaa 180
cttctgagt ttgattctag tgttcaaaga taggtatttt tcatataaga tgtcctgtca 240
aagcaagtca ttgaacttac ctggtattta actgaaaaca aacaaaaatc agcaatctct 300
tccattgctt gtagaaatag tgacttaggc caggcacagt ggctcacgtc taatcccagc 360
actttgagag gccaaaggcag gagtatcact tgagcccagg agttcgagac cagcctggca 420
acatagttag accttgtctc tgtaaaaagg aaggaaggaa gggaaggagg gaggggtgga 480
gggagaggag gggaggggac actctgttat acttatcgaa aggtgctatc caggtgtggt 540
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```

<210> 363

<211> 1974

<212> DNA

<213> Homo sapiens

<400> 363

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ggcagcaggt gggagcagct ctgctgctgg ggcctcagag aatgaggccg gcgttcgccc      60
tgtgcctcct ctggcaggcg ctctggcccc ggccggggcg cggcgaacac cccactgccc      120
accgtgctgg ctgctcggcc tcgggggccc gctacagcct gcaccacgct accatgaagc      180
ggcaggcggc cgaggaggcc tgcctcctgc gaggtggggc gctcagcacc gtgctgctgg      240
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ccaaagacct gctgttctgg gtgcgactgg agcgcaggcg ttcccactgc accctggaga      360
acgagccttt gcggggtttc tcctggctgt cctccgacct cggcggtctc gaaagcgaca      420
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cctctaactt gagctatcgc gcgccctccc agctgcacag cgcgcgtctg gacttcagtc      660
cacctgggac cgagggtgagt gcgctctgcc ggggacagct cccgatctca gttacttgca      720
tcgcggacga aatcggcgcg cgctgggaca aactctcggg cgatgtgttg tgtccctgcc      780
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cttctcttaa attcccttta ctccactgag gagctaaatc agaactgcac actccttccc      1680
tgatgataga ggaagtggaa gtgcctttag gatggtgata ctgggggacc gggtagtgct      1740
ggggagagat attttcttat gtttattcgg agaatttga gaagtgtatg aacttttcaa      1800
gacattggaa acaaatagaa cacaatataa tttacattaa aaaataattt ctacaaaat      1860
gaaaaggaaa tgttctatgt tgttcaggct aggtatata tggttcgaaa tcccagggaa      1920
aaaaataaaa ataaaaaatt aaaggattgt tgataaaaaa aaaaaaaaaa aaaa      1974

```

<210> 364

<211> 890

<212> DNA

<213> Homo sapiens

<400> 364

```

aattcggcac gagattcact aaacactgca atacaagctt ggcaacagaa caaatgccct      60
gaggtagagg agttggtctt cagccatttt gtgatctgta atgacacaca ggagacactg      120
cggtttgccc aggtggatac tgatgaaaat attctgctgg cgagtctcca cagtcaccag      180
tacagctggc gctctcacia atcccacag ctgttacaca tctgtattga aggttggggc      240
aactggcgtt ggtcagagcc tttcagtgtg gaccatgccg ggacttttat tagaacaatt      300
cagtacaggg gtgcgaactgc ttctctcatc atcaaggttc agcaactcaa tggagtacaa      360
aaacagatta tcatctgttg aagacagatc atctgtagtt acttgtctca aagcatagaa      420
ctaaaagtgc ttcagcatta cattggtcaa gatggacaag ctgtagtctg ggaacatttt      480
gactgcctca cagccaaaca gaaattgcct tcgtacatac tagaaaacaa tgaactgacg      540
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aaagccccct agtacagcat tgtcattcag gtgccatctt caaacagttc cattatttat      660
gtctgggtga cagttttgac tttagaaccc aactctcaag tgcaacaacg aatgattgtg      720
ttcagccctc tttttatcat gaggagtcac ctccagacc ccattatcat acatttggag      780
aaaaggagtc tgggattgag tgaacacaaa attattccag gaaaagggca ggaaaaacca      840
ctgcaaaaca tagaacctga cctgtacat cacctgacat tccaagcaag      890

```


<210> 365
 <211> 1043
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (987)..(987)
 <223> n equals a,t,g, or c

<400> 365
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 gaattcggca cgagctttcc cctaagtttt cttatcttca ggctacagaa ttattgagat 120
 tactctcaac cattcctcat gttagaaact ctttctcaat ttatttccat cctctttgtc 180
 cttctctgga taatctcaga ttgatactg tgttttctta aatgtggtaa tcccgggaact 240
 ctagatatgg ttcttcctat ttggactaat cagtatacac attccagtag atccattttg 300
 tccttttatct agatacagta tttctagtag cttgaaactc atttgccttt taaaagtgtg 360
 tttaggatta aaaatcacaa accaaatatc cactgtcctc aagagaatca cctaacaccc 420
 ataaggattc ttgtagactc atggtaaagg ggtagctatt gttttatatc agatagcagg 480
 agtagctatt cttttatatc agataaaaca cattaaagca acatgaatag gcatttgta 540
 aaagaagata tacaatatag caacacatat aaagaaattc tcaacatcac taatgatcag 600
 ggaaatacaa attaaaacca cgatgacata caccttatcc cagccagaat ggccattatg 660
 aaaaagtaaa aacaaaacaa aaaaaacaga tgttggcgtg gatattggtaa aaaggggaatt 720
 gcttatacac tgctgggtgag aatgtaaatt agtacaagct gtgtggaaaa cagtatggag 780
 agttcaagta gatctaccac tttatctggc gttctcacta ctggctatct attaaaagga 840
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 caattgcaaa gatatggaac cagcctaagt ccacatttaa ctgatgagtg gataaaggaa 960
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 actcaggctt tccaggagcc cag 1043

<210> 366
 <211> 2103
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2101)..(2102)
 <223> n equals a,t,g, or c

<400> 366
 ttccctcgtag cgagcctagt ggcggtgtt tgcattgaaa cgtgagcgcg acccgacctt 60
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 ctttaagggtc ggggcgtccg gacgactgta tctgagcccc agactgcccc gagtttctgt 180
 cgcaggctgc gaggaagggt ccctaggctg ggtctgggtg cttggcggtg gcggcttcct 240
 ccccgctcgt cctccccggg cccagaggca cctcggcttc agtcatgctg agcagagtat 300
 ggaagcacct gactacgaat gctatccgtg cgagaacagc tattccacga gaggatccgc 360
 gagtgattta tatcaacact tctgtttgca acactgtaca tcctctgccg catcttctctg 420
 acccgcttca agaagcctgc tgagttcacc acagggtgtc ctgggcccggg tctmtgagac 480
 agtgggtgatg ttgatgctcc tcactctgct ggtgctagggt atgggtgtggg tggcatcagc 540
 cattgtggac aagaacaagg ccaacagaga gtcactctat gacttttggg agtactatct 600
 cccctacctc tactcatgca tctccttctc tgggggtctg ctgctcctgg ctgctggaag 660
 acctggagga gcagctgtac tgctcagcct ttgaggaggc agccctgacc cgcaggatct 720
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 tgctcatcga tgaggctgcc atgccccgag gcatgcaggg tacctcctta ggccaggtct 1080
 ccttctccaa gctgggtctc tttgggtgctg tcattcaggt tgtactcatc ttttacctaa 1140
 tgggtgctctc agttgtgggc ttctatagct ctccactctt ccggagcctg cggcccagat 1200

```

ggcacgacac tgccatgacg cagataattg ggaactgtgt ctgtctcctg gtcctaagct 1260
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ttggacgctt caactggctg ggcaatttct acattgtgtt cctctacaac gcagcctttg 1380
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gagaggggtg gtggcagagg ggagcagagc catctgcact attgcataat ctgagccaga 1680
gtttgggacc aggacctcct gcttttccat acttaactgt ggctcagca tgggtagagg 1740
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ggggcagggg aaggactggg ccagggcagg ctcgggagat agattgtctc ccttgccctc 1920
ggcccagcag agcctaagca ctgtgctatc ctggaggggc tttggaccac ctgaaagacc 1980
aaggggatag ggaggaggag gcttcagcca tcagcaataa agttgatccc aggggttgct 2040
ttgttttttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2100
nna 2103

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<210> 367

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (456)..(456)

<223> n equals a,t,g, or c

<400> 367

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gaattcggca tgagctttct ttctcctgca ggcattggaa atacagtccc agctggcaac 60
accagccagc agcacagccc ggaatcctgc tcctgacctg caccatcccc accagccac 120
gatagaacgt tttttagtgc attcctctc atgggagagg atagagtaca tgcgagtttt 180
tgctctctc ccacccttcc acaagagcac tgtgctttct ttctctctc tttcctttc 240
ttttttttt tttaggcagg gtcttgctgt gtcasccagg ctggaatgca gtggtgcaat 300
catagctcac tgcagccttg acctcctgga ctcaagcaat cctcctgcct taacctcca 360
gtactcagg agaccgagac aggaggacca cttagccca ggaggttgag gctgcagtga 420
gccgagattg caccactgsa mtccagcctg gggaan 456

```

<210> 368

<211> 616

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (17)..(17)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (580)..(580)

<223> n equals a,t,g, or c

<400> 368

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cmgctrctra gcaactnagt gggatscccc gggctgcagg aattcggcac gaggagaacg 60
gctgcacgtg ggagatgctc cgtggatggt tgtagaacgc tggcttccgt gtttcctcgt 120
tgtggctgtg gtggtgtggg tctttgcctg tggaccctg gaagacaaag aagacagttt 180
tgatgggtca agctattttc ttgcttcagg gctccctccc ctgctttttg aagcctcaca 240
aaccaggact gtgagggcag gaaggcttgg ggtctttgtg tgctgagcct cattagggtt 300
ttaagaacct ccctccttcc atctctagct tacgagaggg atgattcatt atcttccctc 360
ctcaggctgc agtagaagca gacagtctct gcctccctgc ttgcctttcc tccctcccat 420
tcactgttga ttattgccct caagaataac aggttgccca gctactcgag argcttaagt 480

```

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gggaggattg | cttgacccca | ggagttcgag | gctgcagtga | gctatgatcg | cttcaactgcg | 540 |
| ctatagcctg | gcagacacag | agagacccta | tctcaagcan | acagacaaac | aaaaaaaaaa | 600 |
| aaaaaaaaaa | ctcgag | | | | | 616 |

<210> 369

<211> 575

<212> DNA

<213> Homo sapiens

<400> 369

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| atcctctgga | atctaggtgg | aagccaccaa | gccttcttca | cacttgcggt | ctgagcatct | 60 |
| gcagacttaa | ccccatgtgg | caatcaccaa | ggcttatggc | ttgtgtcctc | cagaactgtg | 120 |
| gccagagctg | tacctggggc | cctttgagct | gaggctgaag | ccagagtctg | aagctcagca | 180 |
| gggcagtarg | gccttggggc | tggccccctga | aaccattctt | ttctcctaag | cctctggggc | 240 |
| tttgatggga | rgggctgtcc | tcaagatttt | tgaaatgcct | ttggagggtt | tttgccttgt | 300 |
| cttgatatt | ggcttccttt | tagttatgct | catctctcta | gcaagtgaat | gtttcacaaac | 360 |
| ctgcttgat | tctttctcta | ccacagarcc | aggctgcaaa | ttttacaaac | ttttacactc | 420 |
| tgtttccctt | ttaaataata | atttcaatgt | taagtcaact | ctttgctccc | atatctgatt | 480 |
| taggttgctg | gaagtagcca | agtcacctct | tgaatgcttt | gctgcttaga | aatttcctct | 540 |
| actaggtagc | ctgggtcatc | acacttaagt | tcaaa | | | 575 |

<210> 370

<211> 1144

<212> DNA

<213> Homo sapiens

<400> 370

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| gcacacatac | gtatgcatat | aaggattatc | atatataaat | ttatataaca | atTTTTatgc | 60 |
| atgagtgtga | ataaatatat | gcatatatat | gtctgtatat | gtaaacataa | tgcataatag | 120 |
| aattttacata | tatctgtgtg | tatatatgtg | tgtggcacag | tcacacacac | acacacaaat | 180 |
| atgtatacag | atgcttcctg | gcttacaata | ggatttcac | ctgataaatt | catcgtaaat | 240 |
| caaaagtatt | gcaagttgaa | aatgcatttc | ataccacagt | aagtccatca | tttgktcaaa | 300 |
| agtattgtaa | gtcagaatac | atttgacatc | tggataagtc | cattataaag | tcaaaacatt | 360 |
| ttaagtctaa | tcattgtaat | ttgggtaccg | tctatgtaga | tacgtaaatc | atacattaag | 420 |
| gggtgactagg | tgccagggtg | aatgttatga | aatgaattt | caagtctcac | aggcacattc | 480 |
| accattaca | aatatgtacc | acattcacct | attacaaata | tgtacacatg | tatgtgttca | 540 |
| tgttcatact | acaatggcag | agttgcataa | ttgtgacaga | aatcaaattg | cttacaataa | 600 |
| ttaaggcatt | tctacatagc | cttttaaagt | aaaaagttta | ttcattgttg | gtctacataa | 660 |
| cgtggaggaa | tttgtagcgg | acaggctatt | acagtcagtg | aattgaaagg | aagggagaag | 720 |
| ttgggggaga | ctagtagctt | tttgaaggta | ttattttaga | gatttatgaa | kttttggaga | 780 |
| acaagggatg | aggaaaaagt | attgaagaat | ttgggagagc | aggatatcaa | ttagtttctg | 840 |
| actttatttg | gaatgcagat | cagagaaagg | ctgggtaga | aaactgaaat | aataattata | 900 |
| gccttcggtg | aatatcagca | ggactgatgg | gactataggg | agggtagact | agggtataga | 960 |
| gccattgtg | gcagtttcgg | taggacatca | ttggtgtata | cgtatatgtt | atttgtgatt | 1020 |
| ttgtttatct | ttttttaata | agcaaaagga | aaagtgtcct | gatatgtttt | ggctttgtga | 1080 |
| ccccatccga | atctcacctt | gaattgtaac | aaagttttac | catgttaaac | aggctagtct | 1140 |
| cgta | | | | | | 1144 |

<210> 371

<211> 703

<212> DNA

<213> Homo sapiens

<400> 371

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gcttggttac | gtttatagct | tcaacacgcc | tctcattkta | ggtttataca | tgtgtttgct | 60 |
| tgctcattta | ttttgtcatc | atttgctcat | tttattacca | gttattgagw | gcctactgtg | 120 |
| taccaggcac | tgggcaaggg | gcattctgtg | agagagggtg | tggtagctgc | gggcttaagt | 180 |
| agtccgtggg | cttgtgagga | aaacgctaga | ttagatcttg | attactgtaa | atgtcaarta | 240 |
| tggccaagtg | tgggatttcg | tggcaggagt | gagctttcct | ggaatttgct | tttcttgctt | 300 |
| caatttgctt | gatagtcatt | tcattgctagg | gatgttttaa | agtctctggg | gaggccctgc | 360 |
| agtgtagagg | aaaatgctga | tccacaccag | aaatgcgaac | ctggctctct | gcccttgggc | 420 |

```

aagtcactta accctcctga gcctcagttt ccatctgtca cttagagctg attataccta 480
cttaacaccc aggccttttg tgaggggcat tatctcatta gagataatgt ttttaaaagc 540
tctttgtaaa ttgtgtagca ttcaaatgga agttattgtt atttttatta ttgagtgcct 600
tctaattcaa cactgggata gtaacaaaag aagagagggg ttattatcac ccctcttccc 660
tgtcacgttt agattggggc aaggaaaggt tctcacccctg cga 703

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<210> 372

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1249)..(1249)

<223> n equals a,t,g, or c

<400> 372

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gcacgaggga tctgtgtggc atggtatgtg tgtttatgtg tattgtgggt gtctgtgtgg 120
catgctgtgc gtgtgtgtat tgtggatgtt tactgtcccg ggtagtagaa aggacgtcgg 180
ggaagcagcc ccagcatcag ggacaggcca ggagtgcaga atgcatggaa gctggtcagg 240
tcggagcctg ggatgaagga agcacagaga tgcaaggggt ccagggccca tggaaaccaag 300
agccgatgat caaggccaca gtgcacacag ccctggaggc aaaggacata ttcatttcac 360
aaggattaaa aagcatgggc caaggctggg cccaggcca ggactgggga tacagagtgg 420
atcagtcacc atccctgccc ccagggtgctt acccacaccc attcacctca caggtttccc 480
caccacagcc ccttgccgag ctccctcctca ttctcaaar cgtcgtkag gtcacgctcc 540
ttcccgaggc ctctcccat cctctaaaac accctctccc tgcgtccac ttgcagcaca 600
gtcagagagc tccgtggcct gtttccactg gactgagtct tctggggggt gctggtgcag 660
agcagarccc tgggctggga gtcccggcac ctcgttccac tccctcacc acagcctcgc 720
tgtttaacct caggcaggcc gtgtmcctcc tcagcctcac ttccccttg tgtaaaatga 780
gggaagggac tgcgccttct aagccatctt tcagcttaaa acctctttga ccttctatct 840
ggctaattga ggtgtgacc aggggcaaga agggatttga aaaacgcttt gaaaaattca 900
tagcaggagg caaaggagaa agagtcttta ttttcgtaga gcgggaggca ggaggagtta 960
tggacagagg ctgtcgatga aaaggacagc atctcagagc actttgtggc atttaattgtc 1020
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ggtcccccaa cacagctccc tgttgacccc actcccaaag ccagggcanc ctccggccgt 1260
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gccctcagct gggcatccac agccttccat ggcctggccc tgctctctg ggcagctggg 1380
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ggagtggctc gggcactgga aatagcacgt gcagaggcac tgaggcagag acagctgcac 1500
atcaatccat cagaagagca gccagggtggc atgagtgtgg gggaggaagg aagcgcagga 1560
ggggacaggt gggagatgca ggtaggctctg actgtgcagg gccatggtaa gatgtgggct 1620
tctcggctca gggacagggg tgcctcga 1649

```

<210> 373

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (62)..(62)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (126)..(126)

<223> n equals a,t,g, or c

```

<400> 373
tcctttcatc ttaagcacca'cccacaggg caggtactat taccatctcc gtttgacaga      60
tnaggaacct ggcacaggaa gcattttaagt ggattcccca ggatcgcccc actgtcagga      120
gcagantcag aatgggcctc agcatcaggc tcccaatcct ggcttctaac tgctgcgctc      180
tgcccttcyc tcwccccacc tccccactcc agtgcctttg gtcatgccac tgcagctttc      240
aggccaatac tggattagcc tcttagtggt cttgtccctg cagccatttc cccaggcagc      300
aattccatgt gccctcactg atgtagggtg ctcttggtgc atttgtcaca tcctattgaa      360
ttgtttatgc atcttggtca cactcacagc accctccctc tcacacgtcc tccttataaa      420
aatgtccctc agtgtctgct atgagccagg tgcagactta agtgacaggg ctgctacggg      480
aaataaaaaa ttaacaagga gcacctgcct cttaatgcac agtaacaaac tatgttaagt      540
gtcaggaagg aaaggttaag gatgccagga aggcttttaa taaataacct gacttagatg      600
ggcaggtggt gctgargatt aagaacgtgt tcttctcga                               639

```

<210> 374

<211> 520

<212> DNA

<213> Homo sapiens

```

<400> 374
gagaaggact ttatgcaggg aagtgacgca ggacacggag ggactcatat ttaccgagct      60
ttggtgcagt ggcccctggc ctgggtattc tatttaagcc atgcaaaaaac ccattgggga      120
gaagagttaa ggttttcctt ccgcaggaaa aacttgaggc tcagagaggc tatgagacat      180
gagacatgcc aggtcacaca gctggtagct ggcaaagctg actccaacct gtgtctgagg      240
gactctgaaa cctggttctg gccccactc tgggcagcct gctcctctct acaagccact      300
gcctgcagat taagcagtcc tagcaaaggc ctgggagcat ccagagagtg cccctggctg      360
gcgagtggta gagcagcctt ggtttccttc ctttgacct caaggatcac aggagtgtca      420

```

```

cccagaagta acttaactta tgagtgtttt atgaacagga aaagcaggaa aaggggtaaa      480
gtcacatgat ttcacaacca aacagcctgt aaactcgtgc                               520

```

<210> 375

<211> 524

<212> DNA

<213> Homo sapiens

```

<400> 375
gcacagaggg cttgggtgca ggtggtttat ttgggaagtc atcctggaaa atccaaaagg      60
aagggatgga gaagagatag aagacaagaa agaatgcatt gctcgtgggt catgggtata      120
gaaagtttct aggaagcttc tgcagaacct tatgcaatgt gcctcgaatt gtccaaggaa      180
ttgaatgggg agctggtgca ttgtacact acttctgttg ctactgatg ggcaacaggg      240
cttttatccc cagcctttcc aggctgcccc ggggagacag cagctatggg gaggcaccaa      300
cccatgggct gtactcattc cagaatcctt cctcccctac acgctgacag tcaattattc      360
accaagttgt aacttcgaat tctacttacc taaaatgcgt ttggcataca tctgcatgtc      420
acactcacac tgtccctatc ttggtcgaga cattataatc actctcctga actactgcag      480
cagcttccta gctgaactcc tggctcatct ggtctatatt gctg                               524

```

<210> 376

<211> 1035

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (55)..(55)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (110)..(110)

<223> n equals a,t,g, or c

<400> 376

```

gagcggataa caaatctcac acaggaaaca gctatgacca tgattacgcc caagntcgaa    60
attaaccttc actaaaggga acaaaagctg gagctccacc gcggtggcgn ccgctctaga    120
actagtggat cccccgggct gcaggaattc ggcacgaggt tacctcctct ctttcagaaa    180
aaagtgttta aatttaataa aaaaatacag acttcctctc tctctgacct gttctcgac    240
ttctaatttt gtcccattgt tatactctcaa ttctgaaaca agtcccaaac ctttttgtac    300
actcaggctt ttattattta taggtgtctt taatgtggtt tcgctgtttt ttgcttattt    360
ttgtgagcag tgtgactttg acaggtgact tttagaaacat gaagaagcca agcagcctgt    420
gcctcttttag acagggcttg atgtctgctt ctgaagttag tggcagcgga agtggagaag    480
gggattgaaa ggtatcttta aattcgraat tatagaaagt aaaaactggt agatgtgagg    540
acagtgggga aactaagatc atagtcgcct aaggttctgt taatactga gttgaccagg    600
ggggctgggt atgacattga tcatgctaaa ggaaaagatg ccaggaatga gctggggcag    660
agtgaattgg gcagccttcc atcttgacag cacacaaaaa tgtataaatt agcaaaagcc    720
catctttccc taatgccact aagctgtcag tttctggaaat tatcatcatt attarattca    780
taatggtttt aatraagggtg tcatccaaac tgacactttg aaaataaagt gagatgatgc    840
ctaaattgga ggcttggaat gaccttagaa aactgctcca ggaaacttga gaatgtccca    900
attacttaaa gaactctgag tcagctacat ggctcattcc attcatttgc tttgcattgg    960
agagatttat ttggattgac acaggttcat gcctcccaga aggtccacc taaaccatca   1020
ctctgctttc tcgag                                     1035

```

<210> 377

<211> 491

<212> DNA

<213> Homo sapiens

<400> 377

```

ggcagcgggc aaaagcttgt gctgttagct ttaaagtgt tttaaaataa atctgaaatc    60
atttaaacag catgaacctt ggtggccaaa tagatcaatg acaaagagga gaaaacctag    120
atacagggtt atttttgcct tatatgcttt gagattagt tttctattta gagctgtgac    180
taatacagat gcatcacggc tgagagcaaa gcgaggtgaa tgtccctatt aattgccacc    240
atgggtgcgag gctggaatga ggggtgtggc agctaagagg ggatttgtct tcttgccct    300
agaagttcct cattgtttcc tgtcctgtct tgtgtccagc tgcttagcac acttcctttt    360
ggatattta gctttttata gctggaaccc tgaggttcct cagaaatctg cacatgctta    420
ctagatgggtg ctctggattt tctttaaaga taggaagaaa aaggcaaagg cagggtctgtg    480
acgcttctta c                                     491

```

<210> 378

<211> 1042

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (222)..(222)

<223> n equals a,t,g, or c

<400> 378

```

gaatcggcac gaggaatat tactgaattt tcttttatta tcaaatacaa atttagcata    60
tcctatgtaa aatgctgatt gcccttttct gcatattatt tcagatcttg tttctatac    120
ccacaaggat tttctatata tttctcataa acaagagagt ccacatattt actacttacc    180
ttatgagtga acaaaaaaat cacgattggg ttccgagaac tncaaagtgt caccgtgtgt    240
ggctcattag tggaaaaatg ctgctgggtg cagatataaa ggctctgac aggtggctgt    300
ggggccctaa tccagaatga gcacagttat tttgatcaat ggagtctaac ctagtccctc    360
cccaagggtc aaaatgtcct ctggtgcttg caattttctt acagtatttt tttctaattg    420
ataccaagct gggactctcc tggtatatca tatttggaat tgaaaagtga aacaaatgag    480
aattttcctt ttgcgttggt gaatgcatac agtgatttaa gtttggtgac atttctttca    540
gtctgttgat tgttctagga atcgatgctc acagatcaat gagtcatgtc caatttcata    600
aacaactgcc tggggtgagt gtggcctcat aaatgtgaac aaatagtaat ggagtggcaa    660
tcaaacctaa agtgttactg caaatcatgc catgctgaaa gaagaaacat ctcaaaaaga    720
gaataaacat ttttagggtc ggggtgtggt gttcatgcct ataatatcag cactttggga    780
ggccaaggca gaaggattgc ttgaggctag gagttggaga ccagcctgag taacatagtg    840

```

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------|
| agacccccagt | ccttacaaaa | aaaaaaaaaa | attaacaaag | gattgtggtg | catgcctgta | 900 |
| gtcttagcta | ctcgggagggc | tgaggaggga | agacaacttt | aaccggggag | ttcaaggtr | 960 |
| cagtgtctatg | attgcacat | cgcgttccag | ccttggtgac | agagcaagac | tctgtctcaa | 1020 |
| aaaaaaaaaa | aaaaaactcg | aa | | | | 1042 |

<210> 379

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (616)..(616)

<223> n equals a,t,g, or c

<400> 379

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| gatggtatgt | gtgtggtgtg | tatagggtga | atgtgtggtg | tgtgaggtgg | gcatggtgtg | 60 |
| tgtgaggtgt | gtgtggtatg | tgtggcatgt | gtttggtgtg | tatgggaata | tactatggat | 120 |
| taggacatgt | gggttattca | aagatctatc | cttttgtgct | ttgaaatctg | aaatgtagaa | 180 |
| actgtggcct | cactgaggag | gagttttaga | atatgcaagg | gagatgatca | ggactggatc | 240 |
| ttgtatttgg | gtaccacatc | cagtcccaga | cagcatgcta | aggcaaggag | ctcataaaag | 300 |
| ccccaagctc | tagctgttgg | ctacttatct | cctggagcat | caggtgagcg | cgttcaggct | 360 |
| ggggagtcct | gatggctgcc | tggttggtac | aggatgttac | agcttaggcc | tggggacata | 420 |
| gcccagcacc | ctccagargt | tgtgtctgtt | ctttactctt | caggttccct | ggaggcagga | 480 |
| gaggarcctg | cctcatttct | ggcaggcacc | ccactactgt | tattgagcaa | tcctccaggc | 540 |
| tcagagatg | tcagaggagg | accctaattg | ctcckgattt | tgattatttt | gttctttttc | 600 |
| cctaggtgtt | ttactngcag | ataccttgag | taccttggtt | gtatattcac | tttgaaagca | 660 |
| cacatttaaa | tgtttataag | gaaaagggtc | taaagacatc | cattgatcca | ttcattcatc | 720 |
| attcagcaaa | tacctgttga | atacctgctg | tgtgctaggc | actgcggtgg | gcgagccaga | 780 |
| rggctttgtt | gctccaagga | rcttgcatte | tagtattcta | gttattttca | cgcatctgca | 840 |
| ctatctggga | cagggacatc | tgcgttttgt | cgatatataa | gcagcatgtg | tctgcactac | 900 |
| agtttgtgtc | cgtygcagat | gggcaaggat | tgagtgcaaa | aacttctggg | ccaaaagggg | 960 |
| ttggcttggg | tcaggctgct | aagtagctga | ggtgaaagca | tgtgccaccc | ctcctgatac | 1020 |
| agggatcctt | gctgattgtg | tgtgacacca | gggccttccc | atctgtcagc | tggggtttgtc | 1080 |
| ctcacagtag | ctcga | | | | | 1095 |

<210> 380

<211> 427

<212> DNA

<213> Homo sapiens

<400> 380

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggcacgagaa | aggagccaca | tttcttctcc | tttcacctgc | atgtcataag | gtgggtcatgg | 60 |
| atatattctt | tcatattctt | gctaaaatac | tcattgctgg | aagtaacaca | agggtatcaa | 120 |
| atttgtataa | acaacagtat | gatttagttc | tctaataata | taatgcaata | taacaaaatg | 180 |
| agtccattca | actgttgctc | attcaactat | accttaatat | atattatttt | attgatgctt | 240 |
| atctatgtat | acattagttc | tgtgcacagt | ctagtggata | gtgatctgtt | aaatggataa | 300 |
| atgaatgaat | ggctgaagtt | ttatccttct | gaatggatga | gtggcctctc | tagttcattt | 360 |
| tcaagcctcy | agggyatga | tacakgtttc | ctatttccag | atttttcttt | atgttctctc | 420 |
| tttatttt | | | | | | 427 |

<210> 381

<211> 796

<212> DNA

<213> Homo sapiens

<400> 381

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggcacgaggt | gacgtgtttc | tgcatctgtt | gccatgacaa | gctccctgct | tcacccattg | 60 |
| ctgtatcccc | agcacctctc | tcactgcctg | gcaagggaaa | gcactcagaa | gacgctgaat | 120 |
| gaccargtag | agtgatgggt | gttacagcac | tgttactcct | tttccatctc | tgtgtcccat | 180 |
| gtgaacctta | tggcacccat | gagaaggagc | ttgtaccagg | tttatacttt | ctagttttaca | 240 |

```

gatgagaaaa caggatcaga gtggtacaga tattggtcta agtcacagag aaagtgaatt    300
gtaaaaagcag aaacagagca caggctgcct gacttctagt ccagtgcctt ttgctcaaat    360
tgccctttat ttctcaggtt attcttgaaa tggcagatgg ggattctgtt taatgaaaca    420
aaagtgacaa ttctttcttt ctggagaga aggtggagac aggtctcac tctatcacac    480
aggctggagt gcagtggctc aatcatggct cactgcagcc tcaatctcct gggctcaagt    540
gattcttcca ccttagcctc cttgactcac tgggactaca ggtgcacacc accatacctg    600
gctaattttt aaagtttttt gtagagacag ggtctcacta tattgtgcat tctggtcttg    660
aactcctggg cccaagtgat ctccctgcct cggctttcca aagtgtgga attacaggca    720
tcaccccat gcctagcctg aaaattcttt ctatgtcctt aacatcttct ttcccagtat    780
ttctccatcc actcga                                                    796

```

<210> 382

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (492)..(492)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (494)..(494)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (522)..(522)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (526)..(526)

<223> n equals a,t,g, or c

<400> 382

```

ggcacgagaa aaattctcaa gacccatgtg aaagtcagag aggggtgtgg tggcctggct    60
ggcctgaaga cagggtgtct gatgattctg gcagggggccc ccatttgcct ggcactgaaa    120
ttatattagt atctttactg tatgagcacc gtgcccata gggcaagctg tgactctgt    180
caccaaacac tcaggaacca ttgcttttgg ggcctccagg atggtttcat ttgtaggcat    240
ctgccttctg ttggggctcct ttttttctcc ttctctacag gggacaatat ggcaccaccc    300
agcaaaaacct gatgggagtg gacatggact accctcattt gcagtaatca tgggcaagca    360
ggtggtaccc acagtgtact ggagaatgcc ctaccctcgw aggggggggc ccggtaccya    420
attcgccta tagtgatcgt attacaattc actggccgtc gtttacaac gtcgtgactg    480
ggaaaacctg gngntaccca acttaatcgc cttgcagaaa tnccent                    527

```

<210> 383

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 383

```

ggcacgagct cgtgccraat tcggcacgag ggtcatagtc cacagaggta aaagttaaca    60
attctgatgc tcttgatgt gcataccaga ggctctaggg aagaattccc tctttctttc    120
ttccaccttc ttgtggctgc tggcattctt tggcttggg tcacatcact cctatcttga    180
aggccagcat cttcaaactt gtttcttctt cacatagcct tctgtgtgtg cagtgccttc    240
tacctctctc ttataaagac atttgtgatt aaatggaggg tttaggataa tctcgtcaag    300
atccttaact taatcacaac tgcaaaaacc tctttcccaa ataaggtaac attcacaggt    360
tccagggatt aggacctatt atcttttgta agtattatc agcctaccac aatagctaaa    420
acaattctga aaaagaagaa taaagtgaga gaaatcagtt tatctgattt cgatacttat    480

```


| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|------|
| tgtatagcta | tggtaaataa | ggctgcatgg | tattaaagaa | aggacatata | tgaatgaaac | 540 |
| agaatagagg | acccagaaat | agaccacac | aaaggagccc | aaattatatt | taaccaaggt | 600 |
| agaagacaat | ttattggagg | aaagacagcc | ttttcaacaa | atgggtactat | aacaattaga | 660 |
| tatccatagg | caaaaaaaaa | aaaaagaatc | ttgatctaag | gctcacacct | tatataaaat | 720 |
| aatattaaac | tcatggccag | gcacagtgc | tcatgcctat | aatcccaata | cactgggagg | 780 |
| ctgaggcaag | agtatcactt | gaggccagg | gttcaagact | agcctgggca | acacagtga | 840 |
| actctatctc | tacaaaaaaaa | ttataaaacta | gctgggcatg | gtggcacatg | cctgtagtca | 900 |
| caactactca | cgaggctgag | aagatcactt | aagctgagtt | gttcaagggt | ctaattgagct | 960 |
| acaatcgtag | cactgcactc | cagcctaggt | gacagacaaa | gaccccatct | caaaaaaaaa | 1020 |
| aaaaaaaaaa | actcgta | | | | | 1037 |

<210> 384

<211> 828

<212> DNA

<213> Homo sapiens

<400> 384

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| acgagaacac | catgctagtg | agttcattcc | taacagagga | gaacttgcat | cttgactaag | 60 |
| cattagtgat | ctcaaatcct | ctgcttatga | tttttaaact | tctgatcttc | agaatatatt | 120 |
| tccatgagct | agctctggct | ttgtgcatct | caaaccttgt | ttctctccca | tggctgtcat | 180 |
| acttctgggt | ccctgagatg | cagaatttat | ttctacttga | tacacacatt | tgggtattga | 240 |
| tgtagggtta | gtacagcagg | taggttgaga | atttctggag | cctccctccc | tccctttgtt | 300 |
| ctgacctttc | cttagtcata | tcactcctaga | aagatcttcc | ctggcttcgt | ctaaaacatg | 360 |
| gcctctcatt | tcattctctc | cctgacaacc | ctgatgtagt | tttcatttca | ggactcatca | 420 |
| ccccaacatc | ctttcctgtt | tacagcccat | ctccctgct | agaacacaag | ctctgagagg | 480 |
| tggaaggcct | ctattgtggg | ttttggcgaa | tccccaatct | ctagatgggt | tctggcatgt | 540 |
| gataagagatt | caacaaacac | ttcaacaaat | aatgaataaa | gttaaatttt | tcagagtgc | 600 |
| atcatgcctc | tcccttctct | tgccagggcg | gaggctgtgc | ctggtttgcg | cggcttctgc | 660 |
| agctccagct | ccttgtactg | agtctggaga | atgatggagc | tcagtccatt | ttaatcccat | 720 |
| gaacattaaa | tgcgtggatg | tgtggatgct | gggatggatg | gatgacgctc | ctagcacggc | 780 |
| agcttgacag | ggattggcga | tttccagtaa | ggtgtgctaa | gactcgag | | 828 |

<210> 385

<211> 985

<212> DNA

<213> Homo sapiens

<400> 385

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gtcggcacga | gtaataaaat | ctaacacctg | cttagagacc | attctttag | tggacacaaa | 60 |
| gtgccagcct | ctaataactcc | ttccttactc | ttcatggaaa | ccttgaagag | tgattaaaaa | 120 |
| tagtactgtt | tatgtctctg | accacagagc | cagtcatttt | cagcacttaa | ctgaaattgc | 180 |
| tcatgatagt | gtttctaaac | atggccacat | aagtggcaaa | tcccttaaga | attttgccct | 240 |
| ctcagcaggt | ggcaatctgc | cacctttatc | tgatcatttc | tctcctcctt | tggcattgta | 300 |
| gacaccattt | tttcttgggt | atgaccctac | ttctctttat | cttctttgtc | gattgctttt | 360 |
| ccactccagg | gagttctgtg | tttgacacac | aggaggtgtg | ggtagtgtgt | tactctgtaa | 420 |
| ataagttgtt | agccgtgcag | cactgccaag | gaattgcacc | aaatgtgtat | gcattagcag | 480 |
| ttaagaagag | cgtgtgcaat | gttagtgaat | ggagtctggg | catttgtcat | ccaatgccta | 540 |
| tttagcacct | gttatgtgac | agataacagg | ccggcactcg | gatcataacc | cggagcaaca | 600 |
| tagtcagaaa | caaacacaa | ttctctcctt | ggtaagcctg | gtctgttggg | aggtttgata | 660 |
| agtaaaaaga | agactgagar | gccgggagcg | gtgctcasgc | ctgtaatccc | agtactttgg | 720 |
| gaggccgarg | tgggtggawc | acctgaggtc | aggarttcaa | gaccagcctg | gccaacatga | 780 |
| taaaaccccg | tctctactaa | aaatmcaaaa | cctagccarg | catggtggca | ggcgcttata | 840 |
| atcccagcta | ctcgggggct | gaggcagaag | aatcgcttga | acccgggagg | cagaggttgc | 900 |
| agtaagccga | gatagcacca | tcgcactcca | gcctagggga | caagagcaag | acttcatctc | 960 |
| aaaaaaaaaa | aaaaaaaaac | tcgag | | | | 985 |

<210> 386

<211> 1110

<212> DNA

<213> Homo sapiens

<400> 386

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|------|
| gaattcggca | cgagcttggt | tcggggggga | gcaaaatcca | gaatctgcta | aacaccaatg | 60 |
| ctgtcactca | gagtttgtgt | atctgctgtc | tgtggagctc | tggaccaggc | ttgagggacg | 120 |
| cctgggggtt | ccaccacat | ctggggcaaa | ccagaccccc | aagtcactga | catgtcgggt | 180 |
| tttctactaa | tcacgttggc | tttggcaatt | ctgtatataa | taagaagtat | tgtgttctca | 240 |
| cttgcacttk | ggcagaacgg | ttcactccaa | ggctgaatga | ctgccacgga | ccatccccca | 300 |
| gcagggggtc | tgggggttag | tggtttgatt | ctgagcacct | ctamgcamag | agcccccttag | 360 |
| tgggttccct | aactggacgg | ctaaccctgs | tgtggaatct | gactkkwtct | ggaccgaaga | 420 |
| ggacaggctg | ctctggagaa | atccttgggc | cttgtgcctg | atgctggctc | gggccaccct | 480 |
| ggccaccctc | ccttcatgcc | ccatgggacc | aggcagcagc | atgggagggg | gcagcttcca | 540 |
| gaacaccctt | ctgctagggg | ctkctggcct | ccctgctggc | acggccacat | ccatgggtctg | 600 |
| agtgtgtggt | tggaatgttt | tatcaacacc | agtcctcaca | gcttccccag | atgagcgaag | 660 |
| gggaagggga | tgggtgtgtg | ggggattgcc | tcccttgagg | ccccccagct | cccaggatac | 720 |
| ttgtctggcg | agctctgcct | gcggtggagg | ccctatgact | tgacctccat | cttctccctg | 780 |
| ggccctctgc | tggccctcac | tggcaggggc | tcctgcacgc | ctgcaaggcc | agagcctccc | 840 |
| gccaggtgca | ggagaagtaa | atgcaggcca | gagataaatc | gtatttccct | ctaactcgga | 900 |
| tgtggagtga | gaggaaggaa | gcaggagtgg | agctgagtgt | tagtgagagg | tggctgagaa | 960 |
| ggcgggggtc | cgcttcttgc | ttccttgggc | atttgcgtga | ggtgctgggt | ttcagcctgg | 1020 |
| aagggtgcag | cctctgcact | aagtctggtt | tgggtgaacgt | tcattggcccc | caatataaac | 1080 |
| agtgttcttg | gcgttctttg | tgactctcga | | | | 1110 |

<210> 387

<211> 925

<212> DNA

<213> Homo sapiens

<400> 387

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|-----|
| ggaaatagta | ggaaagtga | gcctccagaa | ccaagagaga | caggagtggg | aggcaggctc | 60 |
| cagcacgtac | acatggaaga | gaggtatgaa | ctctcattgc | catgggcaga | gccaccacaga | 120 |
| ccactgctga | gcattctggg | aagctcccag | ggccctatca | gtgcatggca | tggaaagtgg | 180 |
| aatcacttta | tttgaatagt | gaagtctaca | acaacctctg | aagtctgaag | acgagaatcc | 240 |
| ttcaaggtag | caggccttgg | cccattccctg | aaccttttcc | ctcatcctcc | caacagtcct | 300 |
| tccccaatgc | ctcattttct | tctactttga | gcaaaaacca | ttctkatcaa | ctcagaaatg | 360 |
| aacatgtctc | cagagtatat | ccaaacatgt | ctccagaata | cagccattca | acatccagta | 420 |
| atcaaggaga | aggatatgca | gccttgggct | ggcttgtgcc | ctctgcttgt | tttgtggata | 480 |
| tctgtgcatc | tccattgtat | atcagcactg | ctgcaggaga | gagggtgtggg | agtgtcatta | 540 |
| tcttctagat | cagatgcctg | taaaagctgca | cacagaattg | ggaccagctc | cagctaaaca | 600 |
| gtgggttcta | gcactactg | aggattgcaa | attaggacaa | atcattatct | tctccctctt | 660 |
| tctctcttcc | tcagctcttt | ctcaatcttt | actacccttt | tacacacaca | cacacacaca | 720 |
| cacacacaaa | cacacacact | tagactagaa | gagtcattta | acatgagaac | atgaacatct | 780 |
| agagatatgg | tttggctata | tccccaccca | aatctcatct | tgaattgtag | ctccaataat | 840 |
| tccatataat | tgtaggaggg | acttggtggg | agataattga | ataatagggg | cagtttccca | 900 |
| catgtgttct | catggtagtg | ataaa | | | | 925 |

<210> 388

<211> 956

<212> DNA

<213> Homo sapiens

<400> 388

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gggctgcagg | aattcggcac | gagcagagac | ccccaccccc | cagctgtcct | gatgccccaa | 60 |
| gccaaaacat | aatttctggc | agctccccca | ctccccctcc | ccctcactct | tctgccaccc | 120 |
| agagcttggc | ccgctcccaa | cagccccatg | tctaattctg | cagtttccag | aagccccacc | 180 |
| tcaaaccag | gtcacttccc | cagccccctc | agcttctagt | ccccgggtcg | tgcccatcct | 240 |
| caccttctctg | ggctgaaaca | ccacattagg | cacccagatg | cctctgcac | tgaaaatctc | 300 |
| acaagcctgg | atgtccctga | cgccaccac | tcgggttctc | tttctcttct | tcagcctcct | 360 |
| gtgggctcgg | tttttctgt | ccaggcttaa | atgcccagg | ggctgtctct | gctggccctt | 420 |
| acttctctca | cggggatcct | cagcggcacc | ctgggcttca | gtccccatgg | atggagcagc | 480 |
| ccacgcgcgc | atctcagccc | caggcctgag | tgtccagctg | cttcccagac | aacttgcaag | 540 |
| tccctcggcc | aacactgagc | tcagagtctc | cctcctccct | gccagggtgc | gccactacct | 600 |
| tccctccagt | tttcaccagg | tcttgggttc | atcctgactc | cctccttctt | ctctccccgt | 660 |

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| ccttgccaca | cctcactgct | cacaagaaag | acatcactgt | gtccgttctc | cttttttctt | 720 |
| ttcttttctt | tttttttttt | ttttttgaga | cagggtttcg | ctctgtcttc | caggctggag | 780 |
| tacagtgggtg | cgatcttggtc | tcactgcctc | ccagggtcaa | aaaattctca | tgccctcagcc | 840 |
| ttccaagtag | ctgggactac | aggcacgcgc | taccacacc | agttacattt | ttttgtgtat | 900 |
| tttttagtaga | gatggctttt | gccatgttgg | ccatggctgg | tctcaaactc | ctggcc | 956 |

<210> 389

<211> 742

<212> DNA

<213> Homo sapiens

<400> 389

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|-----|
| gaaacctcag | gcaagttcct | ggccatcccc | aggcctcatt | ttcccatcag | gaagaaggaa | 60 |
| ataagcacac | ctgtctcccc | agtctccctg | cctggctcac | tgggcaggca | aatgtgtggg | 120 |
| aggtgattgc | aaaggtacca | gatttgccaa | atatacgctt | gcaattaaat | ccaaaggcct | 180 |
| gtcccacagt | tgcttgactt | tttttaaagg | ccaatttatc | ctcctttctt | aaagactaaa | 240 |
| caatttttcc | acttcattta | ttaaaataaa | gctctttaac | ttgcacgctt | ttagacaaaa | 300 |
| gcaacagtac | tctgaaatga | ccccatcact | tctcagtgag | aagctgtgct | ccctgttctt | 360 |
| tgtgcttctt | gggattgcaa | gtgcggcctt | tgtgagtgtc | ctgtgggcct | ggagcagcca | 420 |
| cacggaaagg | ctcacagctg | aaccacagcag | tagcatcacc | tgcccttccc | caccctgggt | 480 |
| ttttttccct | ttctaatttg | gggtccctctt | atagctcctc | aaatacaatg | tactcgtgtc | 540 |
| cctcagagcc | actgcacaga | ctgtccccctc | tccctaaaga | gaccccgcctc | ttatccctccc | 600 |
| cctcccctac | ccmaccagct | cagccagctg | aactctgggt | catcttctgc | atccgggtga | 660 |
| aaggtcacct | tccttgccag | tcaaccccca | ccctcccact | gcagtcacca | gagatgagca | 720 |
| gcctctaaaa | cctgccctcg | ag | | | | 742 |

<210> 390

<211> 1298

<212> DNA

<213> Homo sapiens

<400> 390

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|------|
| ggcacgagct | gagcccagcc | cggcctgcca | tcttggaag | ccagggcagc | atggaggtag | 60 |
| cacagagtgg | caccagcca | gcgtgaatgc | ataagaatct | gcacgtgaca | cagaagaaag | 120 |
| tctcttcacg | aagtaggttt | cactgggtccc | agccaaaccc | tgtggcatgt | ggcctttctt | 180 |
| gcacctgctg | aacatgccat | tcacctgac | ccaggtagtg | gcctcaccct | cctcttgctc | 240 |
| aaactggaaa | cctcagcatc | ctgaaatgcc | tcttcccca | atccattgca | cacatgtgtg | 300 |
| cctgtgtatg | cgtgtgtgtg | cacgtgtatg | aaccagccc | ccagctgccc | actccattgc | 360 |
| ccctaaacag | gcccctcctt | ggtgtcacct | ggcacatctc | cactggaagc | caaatggata | 420 |
| tttctaaact | gaaatctggt | cccacctcag | aacccttccc | acagttccct | taaagttcct | 480 |
| ttcctcattt | acatcaggat | cttcacaatg | gggacccctg | gtcacctccc | aacccaacaa | 540 |
| acgctccaaa | tgagccgcca | ctgcagaaac | tattatggc | ccgggcagga | ctggcacatc | 600 |
| caagtatctg | accaggctgt | tccatctgcc | aggcaggtcc | tgccctctct | ccaccacct | 660 |
| gtctaacccc | tgcatcctca | agaccctact | tagctatggc | cctgtgtgaa | aggtccctcc | 720 |
| ccatgtaccc | acagccattt | gttctctctc | atgtggccct | aacaggctgg | ggttcctgga | 780 |
| gactccatgg | ggagccaggc | atgaagatgg | catataccca | tgtgtcactc | cccagaacgt | 840 |
| gagctgcctg | ccctggcacc | atacacaaag | ggactgacag | ccccagaatc | ccaaggggtg | 900 |
| cacctatgca | tatgggaaag | gcatgtttac | gggtgagaat | ggtccatcgt | tgggcttcag | 960 |
| gaggcatctg | acctgacgca | cgctttgtc | actttgtcct | tgtggcctgt | tgaaatgcca | 1020 |
| ctcctgcttt | acaaattcac | caactgttgc | atgagtcatt | tccacctcaa | tgagtaccag | 1080 |
| gtccttgagg | atggggaaaa | gtaagccacc | actgtggggg | tccctgggctc | ctaggtgcag | 1140 |
| aagaggctcc | agaaacaggc | caggtcgtgg | gccatgaccc | cacactagcc | ctctgggtccc | 1200 |
| tcacacgggt | ggattggggg | gctgtgtcac | gggatcttag | gatcttcaag | acaaagaccc | 1260 |
| aggacaagaa | cacaagccca | ctcccattct | tcacaggc | | | 1298 |

<210> 391

<211> 905

<212> DNA

<213> Homo sapiens

<400> 391

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gaattcggca cgaggatgat aataaataaa tcaacagaga ttttaccatg ttttttttta 60
aactgatcta gtttatcact ctcttatctc tacaatttat ctttactca aagaactaaa 120
gttatcttcc aaaaacacag aatgaatcag ctactctcc tcaagactct taaatggtcc 180
ttcattactt gttgagaaaa gccagactt gtttagtgga gcaattaaac tccccacaat 240
ttatctgcca gaagactttc tggaaccatg tatgggtttt ttgccctcca acttacagtc 300
ttattggtcc attatttttt tctcatcatg ccacacattt ttgtgtcagg taatttttagt 360
cttttggcct tgttcttact atcagccaac ttcatagttg aagtccagag ttggtgtgtg 420
ttgtgtgtgt tttttatcka tttaggtagg agttacaatt tttatttgct ttgtgacagc 480
attattttct gacacatttt cttcatattc ttttaaagag tttctttttt aaacctatgt 540
tattcaaggt taaacaaata acgagtttct ttgtttggat gttatgctta cacttacttg 600
aatatgttgt tttttttcca gactagccat tagcaagatt cctgtggagt gaggggagtgc 660
ccagggtagt tctccagatt attctgctca aattcttctt cttctcatgc tgcagtgatg 720
aattatttct tcaaaactat gacccactg tgtagctcca ctttctcttg ttctcacaag 780
agtgtacaaa atcggttagt cttctgagcc atggctaaca agaactctag ctactgcctt 840
ccactatate tttccctttt taaaaggagc attttctgag tttagtcac tcaggccttc 900
ctcga 905

```

<210> 392

<211> 762

<212> DNA

<213> Homo sapiens

<400> 392

```

gtttttctcc ttcttagtat cttttgcata tagaaaataa ttactatgaa attatagatt 60
tgacgtgcaa aggctatttc ttgaatttta taaaatgca aaaagatgca tccatgtctt 120
ctctaaaagg actgctgatt cctccacact tggggaaatg cagcttggtc tatttcacag 180
gctcatcatg cccctttttt ttgccaggac gctgggtgat taatgccatg cttggggagt 240
gctccagcca gaaatgaggg ctatcgcttg tgccaataa cagagcagat tctcaataaa 300
gtcccccttg gtgttacact taatggggct tgcttttcca aactgtctcc tttcctgggc 360
tctgagcagc tgagccgaga gctcgtaagc tctgtgccc cagaacattg tgcattcytt 420
gattttgaaa artcttctct gaagsetcct cttgggtcat tggatcagcc caagagcaaa 480
ggatttaaaa gggccaattt gatagggaca gctcatagcc ctgtgtaaga cactgggca 540
tttttctgtt ttggggaaat ggttactgga ttagcatttt gctgtacagg gcgggtctgca 600
agaatgtgtg ctcttgcttg tctcacaagc aggcctgtga ggagctttct gttcccagcc 660
ctgccatttc ctcccaattg gctgggccag atgctccaga cacagttaat gagatgctga 720
gtgaaacaga gccgctggct cacatggcct cagcctcttc ga 762

```

<210> 393

<211> 725

<212> DNA

<213> Homo sapiens

<400> 393

```

aggttctaag cattttgctt gacctgactc atttaatcct cacaaaactc tacaagataa 60
gtatattctc actactttac aggctaaaaa tctgaggcac agaaaagtta ctgaagctcc 120
aaggctcacac tgtgtaccat aagtgaaga gctaggatgc aaaccaggc agccgggttc 180
cagagcagtg ttctaactac taccctctgt tgcctctcat tcatcccatg accttctttt 240
gtcttaccta cactgggatg tgtttgggac atgcattttg cttgttgcta tctcattctt 300
gcagaatgca ttgtacttgc tatttgtgtc tattcacagt tcaggttttg ccaggcaagt 360
acaatgaagg aggagagggg caaaggaatt gaggggtgctt acaaggagat agttagagag 420
atggatgtga aatctaagct gggcaaattg agaagtaagg acatgatata ggtgatgggc 480
agtaaaaaata tgtaatgtca gcagtttaaa ggactggatg gggcagatat taattggagt 540
tgcaggacta aaggagttca aaatatagga aatgaatacc agagacagag agagggctga 600
agtcaaaaatg ttggaggttg tacttattat taacaacaag gtctagagga tgaccgcaga 660
attgggggtcc aagggtgacac atggctgaca gctgtcattg accacactgt aatgcagaac 720
tcgta 725

```

<210> 394

<211> 606

<212> DNA

<213> Homo sapiens

```

<400> 394
tgggtcccccg ggctgcagat tgggccgaga attacacgaa ttaawttatt catgaggcta      60
catttcattt catatgcatg tttccaggtt gtattctctt gtgcaatctg tgtatgttct      120
ttgtcttatt tttttctatg ggaatatattg ctttttattc acttataaga gcaatgcatg      180
tatcaagggtt agattttaat tttgcaacat attttgtggc ataatcagggt ttaaaatgct      240
tgaagttacc atatatgtaa attttttctt catgttcttt gcatttaagt gactggaaga      300
gttcattcct tccactgaaa tccactgaata actaccttgg ctacttggtg ccaatgatga      360
aggcatcata tttatacccc tcaaaggatt cacagtccag gaagaagcag acaaacgaag      420
actttcataa gtgctatgga gagccaagga accatctcga tctgctggga attcctgggg      480
caggaaactg aggatgggac tgtgggtcaa ggaggcagac tctgaccagg ctgggacagg      540
gaaggggagc gttcagggtca aggtgggtcgg ccttctgtca gagcatactg cattacagta      600
ctcgta                                         606

```

<210> 395

<211> 793

<212> DNA

<213> Homo sapiens

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<400> 395
tacgagacta gttctctctc gtgccgctgg aaagtaagca ggccaaatct agtagggcct      60
tgggtcatcg taagtagttt agatatgaag tgcgtagaaa tccttgggga atctgaagca      120
gaagagtggc gtgttctgat ttaaggttta aaaagaacac ttggcttttt gagttgagaa      180
agtattgaag tgggaagccc agttaggagt ttttgcagca agaggtaagg atggtggtag      240
ttagatggag aggccaggga agcttcagag tctgtgtgtg tgtgagtgtg cgtatgtgtg      300
tgcgtgtgta taaggaacag ctaaacaact tgctgttggg gtgggtgcta ctgagagcta      360
agtactgcta gctgctgcag aggccgtgta gagcagaaca gagctgatct ttgccttcac      420
aggtgtttga cagtctctgt cgtttctgag gtgtgtacca aaataaagta ggctaagagc      480
atttgacttt aagatttgtg gagctcgggg gtgttgargg ggatgcagcw aaaaacagag      540
tctgttaata acccttgttt tatattgctt aataacctgt agtctctgtt agtgggtcaa      600
aggagaggca gcagcagatg atctttaagg tacctgtctt tgagttagaa awacatagct      660
tgaggaagtt atgtagcttc cctacagatt acagctaata gtagaaccag acttttaggt      720
gagctcatgc acacatcaag tcttagcaca ctgcctagta tatgtctaga gctcaataaa      780
tggtagctgc gcc                                         793

```

<210> 396

<211> 426

<212> DNA

<213> Homo sapiens

```

<400> 396
ggcacagggc aggagagact tgggtccatg ggagaagcct gcagtataga tgggacctcc      60
aggagcccaa gtagcataga ccctgctgat ccggggccat tgagccagag gatttgggct      120
gaatgtcccc agagacaaaa gggaaaggta gatcctttcc cttaaagatg aaagccatcg      180
cccgggcttg cttattgctc tctctcctgg tccttcacac tgttgtttct gaacatttgt      240
tctggcatca caatccccgt catcctgtca tctggccctt cccacctttc caccttatct      300
cttgacagtgt ctccgcgtcg acctggcacc tgggtgaarg cttgctcttg ctgggtgcca      360
tagccccagc tgtatggtct tgamctcccc agccatatgg araccacct caggagggcc      420
cctcga                                         426

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<210> 397

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

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<221> misc_feature
<222> (486)..(486)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (489)..(489)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (492)..(493)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (529)..(529)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (572)..(572)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (681)..(681)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (731)..(731)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (771)..(771)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (788)..(788)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (797)..(797)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (809)..(809)
<223> n equals a,t,g, or c

<400> 397
ncgaatatgt gtagctcagc tgttttgaaa atgatctggt tgtagaaggc cacaaagcaa      60
atattattat cttaatctta ttctgaattt tcaccactaa aaccacattc tattgaagga      120
atatataata aaagtgcatt atcatatagt gtcacaatga gggattcagg tgcgaaggga      180
agactcattc ctgtgaaaac atagcccatc cccagcagtt ggtagaagga tttgctggag      240
ttcctcctct ttgtgtggcc tataaaacat tccatgaggc atgtggcaat agtcacaatg      300
atagtgggtct tatctcctcc agtcttagca tcctcactca agccacctct tttcatagac      360

```

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| acatacttta | tgtttgggaa | gaggtgctct | aggtgggaca | ccctgcctgc | tccaaataat | 420 |
| tcctactgac | atccatggcc | gcttcattct | atctgagctg | gagatttgagg | atttaggtgg | 480 |
| gcacgnagna | annaggggtt | tggggccagt | gtcgtttgga | tgattttgna | cagatcttcc | 540 |
| tgggggtaag | agagataggt | gggtctaata | anccagggaa | taaaatgcca | aggtgtgtgt | 600 |
| atatggaaaa | tccaagggag | aggaaattaa | aattatccca | gattgcttat | ttaatagtca | 660 |
| ggaaactcaa | ctttcccatg | naaggtaaga | ttccccact | gtgtcctttt | tctttttccc | 720 |
| tgagaaattg | naccaatttc | ctgcagtcag | atgcaaaaaa | tcacaggtgg | nctgggtcgc | 780 |
| aagtgagnct | tcatgtntctg | tcaaacctna | gtcacttttg | gcaggcccaa | ggtcaggtgg | 840 |
| cat | | | | | | 843 |

<210> 398

<211> 2642

<212> DNA

<213> Homo sapiens

<400> 398

| | | | | | | |
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| cacccacc | taatcttatt | atgcaaatgg | gctttccacc | tgactggcgc | aatctgtgag | 120 |
| ccctacctaa | atcaaacact | gcctactcaa | gcctgcctat | aaaatccaga | gaactccacc | 180 |
| agccgctctt | tccttttggga | agccctctt | tccttttggga | agccctctc | tctcactaga | 240 |
| gagagaacgg | ttctcctttc | tctttctttt | gcctattaac | gtcctctcct | aaattcctca | 300 |
| tgtgtgtccg | tgtcctaaat | ttttttggcg | ctagacgacg | aagcccgggc | acttacccca | 360 |
| gacaacacca | ccacttcaat | agaatgtaca | ggccccgcaa | tcccaatctt | ccccaggatg | 420 |
| tagaaaccca | gagcagagtg | ctttgggggt | ccccctggcg | tggtaggatg | tagggcatgc | 480 |
| acagacaaat | cccattccgc | acacgcagct | ttccctttac | cttgggagat | gcgcttgcca | 540 |
| ggaatcctag | gcttcttttg | tgtcttggtt | gtctgtatta | cagttgctcc | acttaatttg | 600 |
| ttgtgcatgt | gttccatctt | accagactgg | tgcaagtgtt | ggaaacttca | gattggtaac | 660 |
| tggtgcacac | caagcctgct | tcacagtagt | gggtgccaag | gagctgctag | gcctatcctg | 720 |
| tttcatccga | gaggaaaacc | tactaatcc | ttttcctatt | tctaactttt | ttcttgcttc | 780 |
| agtccagaga | ccaaaattaa | aatgtaaaag | gtaggattct | acaagacaaa | tgctgttttt | 840 |
| tgtttctttg | ttatcatttt | tattattatt | gtcattattg | ttatcctata | acttgcatt | 900 |
| ttcaagacaa | cctttggaga | gaagggggaa | aaaacacatg | ggctctgatc | ccacttcaaa | 960 |
| ctggaaccac | actttttgat | tctcagtgtg | gagctcatta | gtgctgcctg | ggttacttcc | 1020 |
| atcagcaaaa | acaactctgg | ttaggactt | cctaaaataa | cagaggccag | aaactctttt | 1080 |
| cctgagcttg | ccaaacttgt | gcgtttccat | gactttgaaa | atacctgtgc | tttagcctgg | 1140 |
| aacactcttc | ctactactct | tgcctactta | aaaaattcta | acttatccct | caagtctcag | 1200 |
| atgaagaagt | acttgttcta | tgcagctccc | acggattcac | tcagacagca | agtaccacag | 1260 |
| agtcagtatt | tttcaaaaata | atgcctgaga | gttccttaga | tcagtgagtc | atgtccttcc | 1320 |
| ctgcacacca | gttaccacca | aagccaagcc | ataaagcct | cgtgccgaat | tcggcacgag | 1380 |
| gaaaaaaacc | ctcaaaaaat | gactgaaaac | ttctttaaat | gtgtgtttga | aagagacaa | 1440 |
| gaagctcttc | gtaaaaattg | ttcagttaat | ctaactgagg | cccatttaaa | aatgtacca | 1500 |
| tcagcttata | tgtaaataat | ctaagaaact | gcatttaggk | ttttctcaac | ctgaatctgc | 1560 |
| agactcaagc | tatccacata | caatttgtat | gagcacaaga | ttagcaagcc | atactgctct | 1620 |
| gattcatctg | attttaatgg | aacccttggg | gattgactca | atgcagctga | ctggtttttt | 1680 |
| cctatatata | attgtcccta | atgtgactgg | ctacatcata | atattataga | ctatggacta | 1740 |
| tttgtcatag | atgtttctat | gtttgcttct | ctgcaaat | aagaaagtta | actattttct | 1800 |
| ttaaagtttg | atttctaatt | tctcgatttg | ggcatcagac | caccactagc | aaatgtcatc | 1860 |
| agagtacaaa | aaatggaaac | agaggctatc | attaataata | cattacttca | ctattgacgg | 1920 |
| gatgaccgtg | ggttttgaag | cttatgagtt | caaaagtcct | ctttaaagta | tttttcaatt | 1980 |
| ctgctcccga | agtgggtgag | tgtgtgtgtg | cacacatatg | tgtctgtgtg | catttgtaca | 2040 |
| gaggtttcag | cctggcttac | atttagcaca | gtagcttcc | ttacaggaga | ctttttgcga | 2100 |
| gcatcagtg | ttcatttcac | aactcaccat | gtgtactaat | gctaaagata | cagattacag | 2160 |
| tgtaagaact | ggagtaatta | tagccttcca | aactcctaac | tctcaaactt | ccttatttca | 2220 |
| cagggcacca | ttagtttact | tcccaaagc | tgatttcagc | attttagcag | atgttttgg | 2280 |
| aatgttgtaa | atgggtacaa | aatggaggac | atcctaattg | tgagagtagt | aaatatcatt | 2340 |
| gtcatgagcc | taaggcttct | ctatacacat | tagaagaaag | tactctctaa | agagaatggt | 2400 |
| tagaagttaa | cagggaatac | atcactattg | taataatcat | aaaaaagcaa | ttgcacgcca | 2460 |
| gtgttagaca | gtctctgggt | aaccaggtgc | taataatttt | actatattaa | tgaagacttc | 2520 |
| aagtcatact | ggctctactca | tttggacagt | atttgcctca | gcactaggaa | ggctgatgtc | 2580 |
| ttccttttaa | actcgagggg | ggggcccggg | acccaattcg | ccctatcagt | gagtcgtatt | 2640 |
| ac | | | | | | 2642 |

<210> 399
 <211> 699
 <212> DNA
 <213> Homo sapiens

<400> 399
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 tttcctaagc acactggacc atagaggaag accaaaggaa tgtacagttg cctgctcctt 180
 cctgacttgc tgtatttgac tctgtcccca ctggtggtgg caatgctatt aacccacac 240
 tttaacgtgg caaatcccca gaatctgttg gctggtctct ggctagagaa tgagcacagt 300
 ttcaccctta tggctccaga aagagcaaga acacaccact gccagccaga agagagaaaa 360
 gtcttgttct gtctctttcc cattgtccca aatagccaag cacaggttca accaccccaa 420
 atgccaccct tctgctgtgc agcagccaag gaaaagaccc aggaggagca gtcacaagaa 480
 cctctgggca gtcagtgcc agatacttgc cccaattctt tgtgtccaag ccacactcag 540
 ctgacaaaag ccaacacttt gtctctcttt tttttttttt cttttttttt gagcagagtt 600
 tcactcttgt caccaggtt ggagtgaat ggcaggatct tggctcattg caacctccac 660
 ctcccggtt caagcaattc tcctgtctca gcctctcga 699

<210> 400
 <211> 1681
 <212> DNA
 <213> Homo sapiens

<400> 400
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 cacaaaaagt atgatgggta atgatttgct ccacctcgtg ttcttgcaac taagtttagg 120
 tgtagcatca gggggatgga ttttgtggcc actgaggaga ttgggtggtg cccatacagag 180
 taaggatmca aataaaaatg gmcacsytgt gcattgcttg gtcattacca atgagcctct 240
 agtttccamc aagaagattg ggctctcttc tctcacact tgtccatcaa ctctccaaca 300
 gttttgatcc cactgtgaat taaactagta tcttctaaac acaaaatctt cactctacct 360
 cagtagcgct tggcagctga aatcttttct atttagaata tcccaccttt ctatcttgaa 420
 attttgtcca agctaaatgc ctctactaa tctctgcgta cctgcgggaa cacaatgtgg 480
 ctaccacatt ggctaccagg gctgtaggga ggattgtctc aaaatcctct ccatttatca 540
 caraaagggg ggcgggaara ggaaraaagt aggttatgcc ctgagggtca aggctactgg 600
 atggccaatc tgtgctaggt ttgctgggtca gaaagtagga tgatatgagc tgatatagsa 660
 gagaaatata ggttacagtt tctaccctga ggggctgtat tttagttggg gagatacatg 720
 caatgactgg acaccaccac caaggataag gaagtcctgg gattgtgtga aagccacagc 780
 agttcagaga ggagaaggaa aaagactcca tggaaatgat ggggaattgaa ccaggcctgg 840
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 aagcttcttt agtcatttgt gtttctttac attacaggcc agaggtgtat cttctctgat 1020
 agataatggc cctcagttaa gactagggaa agctattttg cttgctgtat tagcgcccta 1080
 ttttagaata atcctattcc cttgattctt tagtatttac aatttttcta agtaccgatt 1140
 atattttcta agtcaaagt gggtaaaatt agtgcatgt atcctgttgt tgccgcttct 1200
 tggagtagtc agtcttacat atttgaacaa taccacctg gtgtaatttt aaaaagtaag 1260
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 attaggagt ttttacatac atcacacaaa aggaataatgc gttctgaggg gatcggggct 1380
 cctccgagct gagagctgga cctgatgaat tgtgacaaat gggcctgttt ctgccagctg 1440
 caggttctca gccaggtgac gtctgaggct gcctgccagt aatggtttgt gggttgggga 1500
 gcaagaggga ggccttgac atactactg gtgggaaca ggaataatgc aggcccaatc 1560
 agaaatagta actctctca gtgtcccca gctaagtaag actatgcatt taccatacag 1620
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 a 1681

<210> 401
 <211> 607
 <212> DNA
 <213> Homo sapiens


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<400> 401
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aatagtttta tgcagttttt ttggctctag atctgttttag actcctgcag tcaggtgtct      120
gtaactagcc tctggtcctt tttgagagtt cacagtttgg tgcaaaccct ttggatgtat      180
tatttgggaa aatgggatat ctggcagcct gtgtccctgc tttacattat cctttttgct      240
gcctgccccca gcctcctcat tagcatccct gccaaaggcca gtggagaagg atggagatgc      300
ggtgacattc agctgacagt tgtcacagat tgataatagc taacagcaca tctctcccccc      360
ggctccttcc ctagtgcacc aattagccca gcctcatctg cacctgggac tcaagttgcc      420
taaacatatt tcatttccca tagcagaaga tgccatccat ctagagttag actgaaaata      480
caaacaattc agaagttgtg actttccatg ctctgcacac agaggctacc aaatgctaag      540
ggcgcttccct ccccgagcacc aggccttatgg ttctaagctc cagaaaaata tcaataaac      600
cctgccc                                           607

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<210> 402

<211> 1355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1327)..(1327)

<223> n equals a,t,g, or c

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<400> 402
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gcctttacgg agcagactcc ttggcaaata aatgcctcag tgcaggagcc acacgcaagg      120
catttccctt ctgtgtcctc tttcgtgata ttgaggtggg acttgggttt gaaggctttg      180
tactcacctt ggcattgcaa ctcttttgtt attgtgaact ctctgacagt gctttaagtc      240
tggggcacga ataaataatt ttccacacag ctcaaacctg tagggcttac atccagtgtg      300
tgtgcgttat gtctgtgtgt gtatccttat ttttttgaga cggagtctcc ctctgtcacc      360
caggctggag tgcagtggcg cgatctcggc tcaactgcaac ctccgcctcc tgggttcaaa      420
cgattctcct gcctcagcct cccgagtagc tgggattaca ggcacccacc amcacgcctg      480
gctaattttt gtatttttag tagagatggg gttcttccat gttggtcagg ctggtctcga      540
tttctgacc ttgtgatccg cctgcctcgg cctcccaaag tgctgtgatt ataggtgtga      600
cacaccacac ccggtcctgt gtatgttttg agacggagtc tcaactctgt acccaggctg      660
aagtgcagtg gcaggatctc ttctcactgc aaactccacc tcctgggctc aagtgtattt      720
cctgcctcag cctcccaagt agctgggtatt tcagacttgc accatgatgc ctggctactt      780
tttatatttt tagtagagac ggagtttcac cagcctgggt tcgaactcct gacctcaagt      840
gatccacca ccttggcctc ccaaagtact gggattacag acatgagcca tcacgcccgg      900
cccctaagtg gatttttagg cattctttca ggtgggcctc tgtggtgaaa ccttttgtgc      960
acatttcaca aacggcttct ccgctgtgtg gcattttctc gcttttctca ctgccttcac      1020
aggaaacttc ttcccgcact cctggccgac gtcgctccct aggtgactgt gcggcaaaag      1080
ctcagacctc aggacactgg tggctgttgt ccagcctagt gtctgcttac cccgactca      1140
tcccgtagtc acacgtgaag gcttgagggg tctggaactt cctggccgta gcaatggact      1200
ttctgaactt tcttgcctt tcagaattgc gttttgacct tgagtgtggt cgtgggtgac      1260
tcgccggcct cccgccccgg ggtgtggtgc cttgttcttg agtcatcaca agtgccatca      1320
tcttgancct agcwtctttc agatcaccct ctcga                                           1355

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<210> 403

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (23)..(23)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (40)..(40)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (56)..(56)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (59)..(59)

<223> n equals a,t,g, or c

<400> 403

| | | | | | | |
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| ctcacttaaa | agggaacaaa | aanctggaag | ctcccacgcn | ggttggcggc | ccgctnttna | 60 |
| actagtggaa | tcccccggg | ttgcaggatt | cggcasgaga | gaagaccgag | gtggccgagg | 120 |
| cgctgaccaa | gggtgggtccc | tgtctgctgc | acaaccacaa | acctacctct | gacccccagc | 180 |
| cccaagcctt | gtcactctgg | cacagactgg | tcccagtgtc | aggcagacct | ctgagcctgg | 240 |
| tcacagactg | accccttcct | tctggataca | ggctgatctt | tgtcacaggc | cacagacctc | 300 |
| tggacctctg | gtcccagcca | taagtggact | gacctctctt | tatggctgta | tccttgctgt | 360 |
| tctggatgct | cctgggggca | gtgcctatag | ctcagggtca | tcctgagatt | cagctcctgg | 420 |
| agtctgagag | ttgtggccac | agcgagagg | gtccttggcg | ggggggcctg | cgctgtccgc | 480 |
| tgcagcctgg | gctctgagca | gtgctatccc | tagaccttac | tcaggggatc | ctctgaactc | 540 |
| tggccctgcc | ctgcagcttg | agctatcttt | gcacagcttt | gcggtgcatg | gcttttaaat | 600 |
| ggctccataa | gcagcaggct | ttctgcgggtg | atcttttttt | ccatctcaca | ccgtatcccc | 660 |
| tccttgcttc | ccctcccctg | tctccgaggg | tccatctctc | tgggtctctt | cttgtctctc | 720 |
| ctcacctcct | cccgaccttt | ctgcccttcc | tcctctcttg | gggcctgacc | ctgcaggctg | 780 |
| aggctggccg | catggagctc | ga | | | | 802 |

<210> 404

<211> 940

<212> DNA

<213> Homo sapiens

<400> 404

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|-----|
| gtgcgatgga | aagtgccttc | attctagcct | gacaaagggtg | ggttcagtg | atggcagcaa | 60 |
| acacaattat | tgaacagatc | tgagaaaaat | ttcacaattt | tctcagtcct | taattgcttt | 120 |
| aatattttaaa | tcttggcctt | ctggaaagtc | tcagggtggg | aaatcaaaat | tcatattaaa | 180 |
| atgcaaatgg | gcaattaaat | aattgargtt | atttaaataa | tgtatattct | ttattttcat | 240 |
| acctgcttga | atatatatgt | ttaaaggcgag | ttattttatg | ctaaaaaatt | atgagacttc | 300 |
| tgaaaaaatgt | tctcactcaa | atgttaatca | tttctttctc | cacctgttct | tgtttgttta | 360 |
| gtttgttttg | tgctgtgata | acagaatgcc | tgaaactagg | taatttatat | tgaaaagaga | 420 |
| tttattttctc | atacttcttg | aggctaagaa | atccaaagtc | agggggctta | tattgagcca | 480 |
| gggtcttctt | gctgtgtcat | ctatggcaca | aggcagaagg | acaacagaa | atgccagaga | 540 |
| cagagagaga | cagaggccaa | gcccatcttc | ttatcaggaa | cctattccca | taacagcatt | 600 |
| cattcattca | caagggcaga | actataatgt | cctagtcatc | tgtagagat | cccacctccc | 660 |
| acactgttgc | attggggact | gtgtttccaa | cacatgaact | ttgggggaca | cgtccaaacc | 720 |
| atagcagacc | ctaaatttaa | acacaggata | ataataaaca | gtttctgtga | cagttctcac | 780 |
| actgagggaa | acaaaaacaa | acaaacaaaa | aaacattagg | actgattcac | tgctgttttt | 840 |
| ccctttctta | tagtgaaaag | aaattcagaa | gctaagaag | ttcttagtaa | attaattctt | 900 |
| aaaatgctta | caatgtaagt | gtattaaaga | ccattttaag | | | 940 |

<210> 405

<211> 1365

<212> DNA

<213> Homo sapiens

<400> 405

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcagagcta | acccgagtga | agccacttcc | gggcttcccg | ggcgccttcc | gcagtctctt | 60 |
| tccgggtgat | ggcgcccg | tgcccggat | gtagccctgg | cgcaagatct | cttctttttt | 120 |
| ccacctcgcc | ttccgcggat | tcccagcttg | agaaacacct | ctttgccccg | tcattgcccc | 180 |
| gaggaaagt | accttccaag | gcgtgggaga | tgaggaggat | gaggatgaaa | tcattgtccc | 240 |

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| caagaagaag | ctggtggacc | ctgtggctgg | gtcagggggt | cctgggagcc | gctttaaagg | 300 |
| caaacactct | ttggatagcg | atgaggagga | ggatgatgat | gatggggggt | ccagcaaata | 360 |
| tgacatcttg | gcctcagagg | atgtagaagg | tcaggaggca | gccacactcc | ccagcgaggg | 420 |
| gggtgttcgg | atcacaccct | ttaacctgca | ggaggagatg | gaggaaggcc | actttgatgc | 480 |
| cgatggcaac | tacttcctga | accgggatgc | tcagatccga | gacagctggc | tggacaacat | 540 |
| tgactgggtg | aagatccggg | agcgggccacc | tggccagcgc | caggcctcag | actcggagga | 600 |
| ggaggacagc | ttggggccaga | cctcaatgag | tgcccagacc | ctcttggagg | gacttttgga | 660 |
| gctcctattg | cctagagaga | cagtggctgg | ggcactgagg | cgtctggggg | cccagaggagg | 720 |
| aggcaaaggg | agaaaggggc | ctgggcaacc | cagttcccct | cagcgcctgg | accggctctc | 780 |
| cgggttgggc | gaccagatgg | tggcccgggg | caaccttggg | gtgtaccagg | aaacaaggga | 840 |
| acggttggct | atgctctctga | aggggttggg | gtgtcagacc | ctaggacccc | acaatcccac | 900 |
| acccccacc | tccctggaca | tgttcgctga | ggagttggcg | gaggaggaac | tggagacccc | 960 |
| aacctctacc | cagagaggag | aagcagagtc | cgggggagat | ggtctgggtg | atgtgatgtg | 1020 |
| ggaatataag | tgggagaaca | cgggggatgc | cgagctgtat | gggcccctca | ccagcgccca | 1080 |
| gatgcagacc | tgggtgagtg | aaggctactt | cccggacggg | gtttattgac | ggaagctgga | 1140 |
| ccccctggg | ggtcagttct | acaactccaa | acgcattgac | tttgacctct | acacctgagc | 1200 |
| ctgctggggg | cccagtttgg | tggggcccttc | tttcttgagc | tttgtggagg | aggcaccaag | 1260 |
| tgtctcaggc | agcgaggaaa | ttggaggcca | tttttcagtc | aatttcctct | tcccaataaa | 1320 |
| agccttttagt | tgtgtaaaaa | aaaaaaaaaa | aaaaagggcg | gccgc | | 1365 |

<210> 406

<211> 2163

<212> DNA

<213> Homo sapiens

<400> 406

| | | | | | | |
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| cccgcgyaa | gctgagcgcc | tccgcccgcc | aggcgcgccg | gcgcggggcc | atgtactcgg | 120 |
| ggaaccgcag | cggcgggccac | ggctactggg | acggcgggcg | ggccgcgggc | gctgaggggc | 180 |
| cggcgccggc | ggggacactg | agccccgcgc | ccctcttcag | ccccggcacc | tacgagcgcc | 240 |
| tggcgctgct | gctgggctcc | attgggctgc | tgggcgctcg | caacaacctg | ctggtgctcg | 300 |
| tcctctacta | caagttccag | cggctccgca | ctcccactca | cctcctcctg | gtcaacatca | 360 |
| gcctcagcga | cctgctgggtg | tccctcttcg | gggtcacctt | taccttcgtg | tcctgcctga | 420 |
| ggaacggctg | gggtgtgggac | accgtgggct | gcgtgtggga | cgggttttagc | ggcagcctct | 480 |
| tcgggattgt | ttccattgcc | accctaaccg | tgctggccta | tgaacgttac | attcgcgtgg | 540 |
| tccatgccag | agtgatcaat | ttttcctggg | cctggagggc | cattacctac | atctggctct | 600 |
| actcactggc | gtgggcagga | gcacctctcc | tgggatggaa | caggtagatc | ctggacgtac | 660 |
| acggactagg | ctgcactgtg | gactggaaat | ccaaggatgc | caacgattcc | tcctttgtgc | 720 |
| ttttcttatt | tccttggtgc | ctggtgggtg | ccctgggtgt | catagcccat | tgctatggcc | 780 |
| atatctata | ttccattcga | atgcttcgtt | gtgtggaaga | tcttcagaca | attcaagtga | 840 |
| tcaagatttt | aaaatatgaa | aagaaactgg | gcataaatgtg | ctttttaatg | atattcacct | 900 |
| tcctggtctg | ttggatgcct | tatatcgtga | tctgcttctt | ggtgggttaat | ggtcatggtc | 960 |
| acctggtcac | tccaacaata | tctattgttt | cgtacctctt | tgctaaatcg | aacctgtat | 1020 |
| acaatccagt | gatttatgtc | ttcatgatca | gaaagtctcg | aagatccctt | ttgcagcttc | 1080 |
| tgtgctccg | actgctgagg | tgccagaggc | ctgctaaaga | cctaccagca | gctggaagtg | 1140 |
| aaatgcagat | cagacccatt | gtgatgtcac | agaaagatgg | ggacaggcca | aagaaaaaag | 1200 |
| tgactttcaa | ctcttcttcc | atcattttta | tcataccag | tgatgaatca | ctgtcagttg | 1260 |
| acgacagcga | caaaaaccaat | gggtccaaag | ttgatgtaat | ccaagttcgt | cctttgtagg | 1320 |
| aatgaagaat | ggcaacgaaa | gatggggcct | taaattggat | gccacttttg | gactttcatc | 1380 |
| ataagaagtg | tctggaatac | ccgttctatg | taatatcaac | agaaccttgt | ggtccagcag | 1440 |
| gaaatccgaa | ttgcccataat | gctcttgggc | ctcaggaaga | ggttgaaaca | aaacaaattc | 1500 |
| ttttaattca | acgggtgctt | tacataatga | aaaaaccact | tgtggcacac | gatgggcatc | 1560 |
| taacatcatc | atcttctaata | gtgttggaga | ttttcatttc | aaatatattt | tttaattac | 1620 |
| tctattttcc | aaaacacgta | atgcattttt | ctcgaaaata | ccttactgta | aaaataactg | 1680 |
| tcgctacac | atgtgtgaag | tagctagaac | atactgaatt | ttttttgtac | tgttggtactc | 1740 |
| tattcagtg | catgtcctat | atctgatcaa | gttatcaagg | agataattct | agaatgaaaa | 1800 |
| agaaaatcct | cttgttggaa | acaaaagacg | ttttatatgt | gcagtatgac | aaagaggagt | 1860 |
| ttcagagaca | actttgaatc | cttgtcagcc | tggagaccag | caccagagga | atctacaagg | 1920 |
| caaactccca | tatatttgct | tcccccaaat | tgctgcccct | acagactcaa | agctcttttt | 1980 |
| ctttgttttg | ttgtttctct | aaaaattttac | tgttctttgt | cgatgctata | taagccaggg | 2040 |
| agttctaaga | cgccagctct | ttgagatttg | ctcattcccc | tgtatttccc | acatatatat | 2100 |

tacatatacc cgctaataaa tttatgtttg ttttaaaaaa aaaaaaaaaa aactcgaggg 2160
ggg 2163

<210> 407
<211> 1979
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (968)..(968)
<223> n equals a,t,g, or c

<400> 407
gctttgccag ggctgagccg ggctgcctgg tgccctcacc gcccccgcca wacaccacca 60
tgccwactcc cggcctgcgg aactcgtagt gcagccctg tcgcctcccc ggccctgct 120
atcccacgca ggactggctt cggccgcccgg ggccagcagc ttgcracgtg tccctgggga 180
ggcggaatcg ctgtgcgccc tgagcccggg ctgagccctt cgctttccag ctgcgtcctg 240
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tacaaggty caataatcac atgaggagtt taaagtttta aatatatact cagacattca 1560
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catttatttg taaaatgagc tatgttcaaa tgtaaatatt tgtaatttaa tgtatttacc 1740
mcattgactg tactaattat ttagtagtca tactgtaatt tttatgttaa taataactgg 1800
agttcaaagt ctagctattg gtataatcat ctaatattat atatatctcc agtgccccctg 1860
aattttatgt ttgatgacta tatatttggg catatatctt gttggattag aataaataaa 1920
acactttata tttcatgaa ctctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1979

<210> 408
<211> 2087
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

<400> 408
nccacgcgt ccgctgttgc tcaaaggaaa taggagttgg tgtgcttgtg accaaggggt 60
tacacttcca gcttttaaaa ttctccttta catgtgctca gtgttttgtt ttgtgtttt 120

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gtttctgttt tttattttaa ttccacatt gggcacaaga atcagaatat ggatagctag 180
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ctccaattca gttcagggca ttccacagtt aaacagaaat ggggaacgtgg ggctcttata 300
aatgaaatgg ggcgtcacag ttttggtttt cagctcttca tgtctgtaag tgtgctttgg 360
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ttcatggaca ttcagtgtg tttcgcactg cagttagaga gaagggacgg acagttggtg 480
acactcagcc acattgctac ttttatctgt tctggtaaga agttagatag atggttagatt 540
gaagcaattg ggtagaatta gttgggggaa tatttatgag ttgctgtgtt tgttgattag 600
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aagcccacat agtggggaata aattgcttca gccattttta gtatttgaga gcactaggga 840
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cccccttaat ctggccattt aaattacagt agaaagacaa aatcaagtaa aataaagtgt 1260
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agaatcacag atccagtcctc acttttccac aaatctccaa atctccagtc ttatcttg 1680
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tcttttattt cctttttttt ttatatttgc tttcctttct actgctttta gatttgcagg 2040
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<210> 409

<211> 1811

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (21)..(22)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (37)..(37)

<223> n equals a,t,g, or c

<400> 409

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aactaagtgg ttccccggg nntgcagaat ttsggcnaa gccagaccag gagtgtccag 60
tccttggggc ttggtcagcc tggagcagtt gctcgggccc ctgtggtggg ggcaactatg 120
agcgacatcg gacttgtgag gggggtcctg ggggtggcacc atgccaggcc caggacacag 180
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gtgcctgtgc cacctcatgc ccgtgcctct cctggcatct gcagcctggg gccatctgtg 300
tgaggagcc ctgccagcct ggctgtggct gccctggagg gcagctgctg cacaatggca 360
cgtgtgtgcc tcccactgcc tgcccctgca cccagcattc tctgccctgg ggcctcacc 420
tgaccctgga agagcaggcc caggagctgc ccccaggac tgtgctcacc cggaactgca 480
cccgtgtgt ctgccacggt ggagccttca gctgctccct cgttgactgt caggagtgcc 540
ccctggggaa acgtggcagc aggtggcccc gggggagctg gggctctgag agcagacgtg 600
cctggagatg aacgccacaa agaccagag taactgcagt tcagctcgag cctcgggctg 660

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```

cgtgtgccag cccgggact tccgcagcca ggaggcccc tgcgtccccg aagaccactg 720
cgagtgtgag caccttgggc gtccccacct gcctggatct gaatggcagg aggcctgtga 780
gagctgcctc tgcctcagtg ggaggcctgt ctgcacccag cactgtctcc cactcacctg 840
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tctagaccgg gagagccctg tgcggatcct gaacctgccc tgtctgggtg gccacacaga 1140
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actgaccacg tccttccacg ctctctcacc tgcccccaac tggggggcca tgacttgga 1740
ttagcatgtt ccaaataaag tgatactggc aacaaaaaaa aaaaaaaaaa aaaaactcga 1800
ggggggggcc g 1811

```

<210> 410
 <211> 642
 <212> DNA
 <213> Homo sapiens

```

<400> 410
ggcaggagg ggccaccaca cccggcctgt acatgtgtgt ttgcatcttg ctttatacgt 60
tggggagtgc cagatgtcac catctttcgt tcttctctg gggctgggtca aatccccctg 120
agaaaactcc tctggcctcc tggcgggggg tgaaggccag gctgccaggg ccaggctgcc 180
agcttctggt agctgcaggg gcagaggcag ggagctgtca ggcattcagc cagcaagacg 240
cactcagtac ccacttgggg ttcagaatcc cctccctca tcttcagatg ggccagatgt 300
ccccaaagcc agcggcccct ttctgtttca cctgtctac agaataaacc ccagtcact 360
gggggtgggg gaagagtaag gggagagggg aaacgagatt tggaggtcta gctgtgctg 420
aaacagccct cagttcgtct ttattttgcc ttctgcaaaa ctggcctggt gttgccagct 480
ccttttgagg actttgtac cggttctcag catccctcaa ttgctggctt aggattcatg 540
ggttttttag ggtgggggtg gattagcatg tccagctgct ttccagtttc caaagttctg 600
tccttatcat attgcctctg atttaaaaaa aaaaaaaaaa aa 642

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<210> 411
 <211> 606
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n equals a,t,g, or c

```

<400> 411
ccccccggnc tgccaggant ttcggcacga gtctctctgt caactctatt tgtatttcta 60
taatggaaac tcaaatttgc ctaactcaga ttgtagcact tttcttctc aggctagtcc 120
taggaaaact cacttgtttt ttgtatggaa aactagtgtt agtagaagcc tttattcttg 180
catagcccc aaatcagctt tttcagctat aatttagtaa gtctaattg ttcgactgaa 240
gtactttttt tttgtaataa caagtgaata ataatgaaga gtgtgtctg gcgcatggct 300
cacgcctgta atcccagcac ttcgggaggc cggagcygag gcagcggatc acttgagggt 360

```

```

caggagttca agaccagctt gaccaacatg gtgaagtcct gtctctatta aaaatacaaa 420
aattagccag gtgtggtagt gcatgtctgt aatcccagct acttgggagg ctgagacagg 480
agaattgctt ggacctggga ggcggaggtt gcagtggagt gagattgcgg cattgcactc 540
cagcctggac aacaagagtg aaactttgtc tcaaaaaaaa gaaagaaaaa aaaaaaaaaa 600
actcga 606

```

```

<210> 412
<211> 1118
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (482)..(482)
<223> n equals a,t,g, or c

```

```

<400> 412
gataaatttt gaacaccagg actctgaaaa agtttaagca tatatatgag aaatttcctg 60
aaatgttgta tgtattgtct tgtcttctta aacagaagac actgaacaga atggaatctt 120
tggttgatct ctaaggacca ccattttgag gatctcttat aatgtatgat gacatttttc 180
ggttccca ttttgctttt tctgttttgc cctttgaaag caggccatcg tcatttggtc 240
agttcctcct ttcttactgt ggctgtgtcc atctctaagg ggccattctt ccactctaca 300
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tcccaaaaaca cacaaccag gacaaaacac cacttcagtt ttctgcatct tatagtctta 420
caaccttgag tttgggagga tcttgactca agagtcagat ggtgaaatat ctagtacttg 480
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ccaataggaa tctgggtagc atcttttaaa ttcttttagtc ttcagtctta tctgtaaaac 600
atgggactgg tctagataat ttctccaact ccaaaattca atcatgttct taatattaaa 660
aatcctcatg tccatagatt tttgtattct ctccctggta aatcctggta atttcacagg 720
gatgtttgaa actgaaaaat cctgggaaaa gtagatttta gtcaagtcca ctccaattta 780
aaaccatact gaagtaccat tttcactcat aattataaat taaaaaatga cactatcgag 840
ggttgataag atttatagaga gatggctatt ttcatgttgc cagtgagaat ataaaattcc 900
catttgggga aaaaatttat actatctatt caaaagttat atgcacttaa tctatgactt 960
gacaattcca tttctcatgt tcattttgga ggattactga cacatatcct atgcaagaat 1020
gtgattgata gcattgtttt catttgagac cagcctgggc aacatagtga gaacctgtct 1080
ctacaaaaaa tttaaaaaaa aaaaaaaagg gcggccgc 1118

```

```

<210> 413
<211> 830
<212> DNA
<213> Homo sapiens

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```

<400> 413
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cctctgactg taaaaagaag tagcagttcc gaaagcaaga gttccctatg aacacggaag 180
aagacattgg caacttttga gtacaacaac tatatttaat agagtaattt aagaacatca 240
gccagtgaat tttatacaag atagtgaag agaaaaggaa gattaattag gggtagttta 300
ggatgccatt aaatagccta gaattagggg agtagtcggt gaatagaaag gaggccacaa 360
at ttgaggga tataagctaa gaattggtaa gccagaaga aggaaaagg tggggcagta 420
aggataatga ggaacaaaat agagaactca gaagcaatat ctgactgtta tcattggaag 480
aatttttttg cttgcttgag gctggatatt gaagtggatc aggatacttg agtgactatc 540
tgatgggctt ttggaactag ctctcaagag gtgaaaatta gctttttttt ctttttcttt 600
cttttttttt ttttttgagg caaggtctca ctgttgtaga ggctgaacct cctgggctca 660
agcagttgtc ccattgcagc ctccctcagat actctgtaag ccaaggcagg gggaatattt 720
tgtgctcagt agtttgaggc tgtggtgagc taagatcaca ctgctgtgct cacttcagcc 780
tgggcaaacac agtgaaaccc cgtctccatc tgtttaaaaa aaaaaaaaaa 830

```

```

<210> 414
<211> 755
<212> DNA

```

<213> Homo sapiens

<220>

<221> misc_feature

<222> (640)..(640)

<223> n equals a,t,g, or c

<400> 414

```

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atcttgggat tcctgcaagt ttgaccttca cttatgcaat ctgtaaaatg aaggcattgg      120
gcttagatga cttagatggt ttcttcagtg tcttacaggc ttacatgtta tatttttgaa      180
ttgctataaa gcatgttttg caaattctga caccaaaca tggtttgcat tcctatagca      240
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gatgtccaag tgactcgtga cctctcactt cttccacttt tccaggtaga agatcagcct      360
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gacattgttt gaggaagaaga ggtagatttc ctaaaaattc ccctgaagcc cataggatat      480
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ttggaaggcc atggtgggca gatcacttga ggtcaggagt ttgagaccag cctggccagc      600
atggtgaaac cctgtctcta ctaaaaatac aaaaattagn ccgatgtgg tgggtgcattgc      660
ctgaggttgc agacagccga gatggtgcca ctgcactcca gcctgggcaa cagagcgaga      720
ccctgtctca gaaaaaaaaa aaaaaaaac tcgaa                                755

```

<210> 415

<211> 1939

<212> DNA

<213> Homo sapiens

<400> 415

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gaacacaaac atgcagtctg tagcagatgg taataggctg ayatattaca cttgttgatg      60
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aatttttcag tttctgtgag aattttataa ttataattt gcagacttaa tgtataatct      180
attttgtcct aacaattaca aatatattt ttatttcaga ttrtatatat tcctaccaga      240
tggagataat tacagcttta aaaattttta ttttttcatt ttatttcaca cattgacatt      300
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tgatgtgcaa atactatgtc attttatatac agggacttga gtatcctttg ttaycctcag      780
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agctcttctt agtattctgt gtgaccccat tygacctttt acaaaatccc taagtaata      1620
aatagcccct maggwaact aagtttttct ctgctgtttt tttgcttgag agagctataa      1680
ctgtaataga cttatatttc tgaacatttt agtgcttgcc aatatttggt aatatttatg      1740
tttcctatat ttgtaatgaa cattcttctt cmggtacatt tyttgttaaa ttattgttts      1800
atgsataaaa gttcaccttt tattgtataa aattgactca gattaattta tacacattga      1860
caatgggtaa atagagtttt tcagattatt aaaagctgaa ggatgcccat gtaagcaaaa      1920
aaaaaaaaa aaaactcga                                1939

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<210> 416
 <211> 1776
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (24)..(24)
 <223> n equals a,t,g, or c

<400> 416
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 gcgcccagcc ttgaagtcatt gttctaaatt gtatttgaat ttgtgcctct ttgtttttcc 180
 ccaaaccaaa gccctcaaatt tgtagtctct gtcggcttct gcagaattct ggaaaatgcc 240
 agttttcttc cccgcctctt gttttccata aaacataatt atattattgt atgaggagta 300
 ctttctgaag agtacttcgt attttttttt aattgccttg tttgccttca acttccttga 360
 ttttcatagt ttacatgggt gtgtgtagggt gtgtgtgtgt gtatgtgtgt gggtagggc 420
 ttttttcgtt gcatgtgatg gttctgtgga catatgatcc ccacaaactg tgggagtgat 480
 tggccaggcc ttgttttktt tgtttgtttg tttgtgtttt tgttcttttg aagaatagag 540
 tggattttag aaaataaatt gcattgcaaa gctcttatcg gctcatatga gagagcagggt 600
 tcctgccttc gaaaatgccg gtaagctata gcatatgttt ttttaagactt aagcatttca 660
 tgctttaaaa taccttcaca agtgaacatt acacacagaa gtccatttgg ttttcctttg 720
 ttttatgggt catatagcaa taaagacccc cctccaccct gcaacccccca tccccaccg 780
 ggcttttgtc cctgccttgg cttttctccc cttctcattc tcctctcccc tttctcact 840
 gaaggctgtg agttgctttc aatgtgacaa cactatgatg tcatttggaa ggatttggca 900
 ggacagactg attctgagtc ctgggtgccg tatgtgtatg cggcagtgtt gtcaggcgat 960
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 aacacctgac tttagaaaat gctgatttga gaacaaaagg aaaggctctt tttcactgct 1080
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 caaggctact gatgggtggc cccttaattc tgtctttgat tgctgtgtgc agggaaagggt 1380
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 ccacatggat tgattgtatc cactcaccat tgacgatggc attgagcgta gctagcttat 1560
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 ttacattatt tactcatgtg tttgtacatt tttgtatgtt aatttatgaa tgattttttc 1740
 agtaaaaaat acatattcaa gaacaaaaa aaaaaa 1776

<210> 417
 <211> 682
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (624)..(624)
 <223> n equals a,t,g, or c

<400> 417
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 ggctaataaa taataatttg caatatatag attgtatttt gtctttgaaa cgctgtgagg 120

```

agatcctctt aatgtggcat ggtctgcttc tatgccttgc ttctgtgttt cttgagctcc 180
gtggagatag gccccctctc ctggcttctc tgcttgagcc acataaaatg ccacttcaca 240
gctcttcctt ttgaagcctg atccagtatg catttgagc taattactgc agttgacaca 300
actccatcta aaagcgtcat gaaagattct gtaatcactg ataagaaaat gatcttgcaa 360
attattgctg tgcctcctt tattgcctct ttaccttaac agtacagttt acaataatgt 420
aaattttttt ctaatctttc aactttaacc ctgaaattg tagatgtttt agcagtgggt 480
atgtgatatt ggcacaacat aactatataa ttgtctcaat attgtggtgc atacctgtaa 540
tcccagctgc tcaggagtct gaggcagtag aatcacatga acccaggaga tggagggtgc 600
ggtagctga gagcgagtca ctgnactcca gccaggacga cagagtgaat ccctgtctca 660
aaaaaaaaaa aaaaaactcg ag
682

```

<210> 418

<211> 739

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (649)..(649)

<223> n equals a,t,g, or c

<400> 418

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cttgccagaa aacggcagca gaagcaggcc caagggcac cttacctcc tggcattcat 120
ttttgcctct gtcattctat gcaggtgtgt ctgcttggtg gaaactgggt ttcacaacag 180
agtccaagat gtaaaggagt ttggaaaatg tctaattgtg cttttgatgt atgtaaggga 240
aatattttaag gcaatcctat tgtaaatgag agaggataaa gggatacaat gggagtttaag 300
tgtgtgcag ttcactcgaa ctggtaaaat gtcagcccca gttgactttg ataaattatg 360
catatgccag ctgcccaggt cacagtcttg aagctcttgc cttttccttg tgtgtgtggt 420
ttaggatggg ttcccatagg ctgtgtttcc atcccatctc atctcaaggg aaatctctgc 480

tgctcctgag cacctcgtgt catagatttt atactcttac agacttggaa tgcagtagag 540
gtatgtggaw ttttaggggt ttgttttttt aagaataagt aacaagaaat aacacatttc 600
ttaataatag cttttttgac atagtttggg gtctgattat atggtacant tttctaccag 660
taatataggg ttgccaataa atagaaaakg ttttctaaaa ataaatttta ttacaacaaa 720
aaaaaaaaaa aaaactcga
739

```

<210> 419

<211> 1126

<212> DNA

<213> Homo sapiens

<400> 419

```

ggcacgagat tgctacaaa tgtcagaggt ataatgggtt gggtttcatg ctggcttctc 60
acacagtcca tcacagtgat tcttgagacc agaggaggt atggaagact gtgtgttctc 120
caaggaggcc actgtggtct ggtggataag agtgggagtc ccaatccttt ctccgcagat 180
gtgctagctg tgcactctgg gcaagtctct cactctcctg agcctcagcg tctttatcaa 240
tatgacgaga ataaatacag cacctgccta cctcatgggg ttgtttcagc agtcaatgag 300
atcatgtata tgaagcattt agtataccta gcaccttaata aaagctcaac aaccagtagt 360
cttattacta acaaaatgga gctagaagga tgcattagtt taaacaaaat cttgaggcag 420
atactgggag tacctgtctt tattcttcaa cttgagtctc ctcccagttt gtttgataa 480
aaactcaaat gtaatatctt taatttgggt aaaagaactt ctgagaaagg gttgaacatc 540
tatccacttg cctttttatg cctagggaac tagagatact tgttggcggc atcgcaaatg 600
ttgctgactt atgaagtact gcagtatctg aatacctttt tgtaggataa tctaaagtgt 660
ccaaaaaata gtatagtgtt gtagtgaaga acttgactc ttaagccaga ttattttgtt 720
cagattcaga aatcccctcc actccacca ctggctgtat agccttgccc aaatcactga 780
atctctgtgt gtctgcgtcc tgggtgtgtg aatgaggaca atagtagcta ttgggtaggg 840
ttggcctggg gtctaagtga tgaactgcct taagggtgtt agaacagtat ttggtaaaaca 900
actggcactc aatcagtgtt gctgtgatta tgatgattta ttccaaggtt gcttgctttc 960
cagtacatca tagactacta cttgacaaa tttactagca atggagtacc tgaaagtgtt 1020
acatgtgcac atttgcatga aaaccacaca aaatttccct ttgaacagtg aaggggacgg 1080

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cacaaagata attcttggca ctaagcttaa aaaaaaaaaa aaaaaa

1126

<210> 420

<211> 851

<212> DNA

<213> Homo sapiens

<400> 420

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| gctccacag | ataattgaga | atatgcagta | tttggttttc | tgtgtctgct | ttagtttgc | 60 |
| taggatattg | gcttctagct | gcatccatgt | tgcagcaaaa | gacacaattt | tattctattt | 120 |
| tatggctgtg | tagtattcca | tggtgtgtat | gtaccacatt | ttctttatac | agtccaccat | 180 |
| tgatgggcac | cagggttgat | tttatgtctt | taaatatgtg | ctgcaatgag | aaaaaacata | 240 |
| ttttctacaa | aatgatagaa | gtttaaaagg | acaagtttat | gggttagcta | attggcttcc | 300 |
| cattttattc | tctaattctc | ttatatgtac | acttcttgag | atttaagtgt | gtttgccagg | 360 |
| aacatgggtac | tggtattgtg | ttggtaaaca | gtaagcggta | gaaacaatgg | tgataacata | 420 |
| gattcataca | caatgtgctt | ttaattcttt | gaaaaaatag | aataaattca | ggagtgaatt | 480 |
| gctttgtaag | ttgttatttt | taaaacttac | ctgcaatgaa | agaggactgt | cctcctcgca | 540 |
| gaactagaga | aggggtgacaa | gccatctccc | tattcactga | ttggattccc | agtgtacta | 600 |
| gttttgtgtt | actgaaaatc | acttgagata | attctgttct | atgtgcaaaa | aagcmaaaaa | 660 |
| gtagaattta | gaaatccagg | cctgctaata | gctattagcc | atctatttat | tgttctgatt | 720 |
| tttttttttt | tttttgagat | ggaatctcgt | tccagcctag | gcgacagagt | aagacctgtc | 780 |
| tcaaaaaaaa | aaaaaaaaaa | aaacctcgtg | ccgaattcga | tatcaagctt | atcgataccg | 840 |
| tcgacctcga | g | | | | | 851 |

<210> 421

<211> 747

<212> DNA

<213> Homo sapiens

<400> 421

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| catacttttc | aacattccct | tctgtccttt | ctttgttttt | aaagaaagct | ctgattttgt | 60 |
| ttcatattca | gctggagact | taaatgacac | caagcaaagc | ctacttagtt | tagatctcca | 120 |
| gaaattggct | ggtggaaaaa | aatcaaacat | gaagattgca | gttttgtttt | gtttttttct | 180 |
| gcttatcatt | tttcaaactg | actttggaaa | aaatgaagaa | attcctagga | agcaaaggag | 240 |
| gaagatctac | cacagaaggt | tgaggaaaag | ttcaacctca | cacaagcaca | gatcaaacag | 300 |
| acagcttgga | attcmgcaaa | caacagtttt | tacaccagta | gcaagacttc | ctattgttaa | 360 |
| ctttgattat | agcatggagg | aaaagtgtga | atccttttca | agttttcctg | gagtagaatc | 420 |
| aagttataat | gtgttaccag | gaaagaaggg | acactgtttg | gtaaagggca | taaccatgta | 480 |
| caacaaagct | gtgtggtcgc | ctgagccctg | cactacctgc | ctctgtctag | atggaagagt | 540 |
| tctttgtgat | gaaaccatgt | gccatcccca | gaggtgcccc | caaacagtta | tacctgaagg | 600 |
| ggaatgctgc | ccggtctgtc | cgctactggg | acagagcttt | agctaagcaa | aatatcagtg | 660 |
| tgtagtaaat | ctttaacttc | catttgtttt | tgttactaat | tttagattaa | aattatgata | 720 |
| cattaaaaaa | aaaaaaaaaa | aactcga | | | | 747 |

<210> 422

<211> 2520

<212> DNA

<213> Homo sapiens

<400> 422

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| acgagcgcct | tgaggaggat | gagtccctgg | agctgggttc | tgctgcagac | cctctgcctc | 60 |
| ctgcccacgg | gcgcagcttc | gcggcgcggg | gcgcccggca | ccgccaactg | cgagctcaag | 120 |
| ccccacaaca | gcgagctgaa | ttccttcttg | tggaaccatta | agcgagaccc | accatcttac | 180 |
| ttctttggca | caatccatgt | cccgtacacc | cgagtttggg | acttcatccc | cgacaactct | 240 |
| aaggaggctt | tcctgcagag | cagcattgtg | tactttgagt | tgatctcac | agacccctat | 300 |
| accatctcag | ctctcaccag | ctgtcagatg | ctgccacagg | gcgagaacct | ccaagatgtg | 360 |
| ctccccagg | acatctactg | ccgcctcaag | cgccacctgg | agtatgtcaa | gctcatgatg | 420 |
| cccttgtgga | tgaccccaga | ccagcgcggc | aaggggctct | acgcagacta | cctcttcaat | 480 |
| gctattgccg | gaaactggga | gcgcaagagg | cctgtctggg | tgatgctcat | ggtcaactcc | 540 |
| ctgactgaag | tggaacattaa | gtcccgtgga | gtgcctgtct | tagacctgtt | ccttgcccag | 600 |
| gaggctgagc | ggctgaggaa | acagactggg | gcagtggaaa | aggtggaaga | gcagtgccat | 660 |

| | | | | | | |
|-------------|------------|-------------|--------------|------------|-------------|------|
| ccattgaatg | gggtgaactt | ttcacaggtc | atctttgctt | tgaaccagac | cctcctgcag | 720 |
| caggaaagcc | tgcgagcagg | cagtccttcag | atccccctaca | cgacggagga | tctcatcaaa | 780 |
| cactataaact | gcggggacct | cagctccgctc | atcctcagcc | atgacagctc | ccagggttccc | 840 |
| aatttttatta | atgccacgct | accacctcag | gagcgcacatca | ctgctcagga | gattgacagc | 900 |
| tacttacgcc | gggagctgat | ctacaagcgg | aatgagagaa | tagggaagcg | ggtgaaggcc | 960 |
| cttttgagg | agttccctga | caaaggcttc | ttctttgcct | ttggagctgc | ttcacagtag | 1020 |
| ccttgaaaat | caggagcctt | gaactacagt | agctgtgaaa | actgtttgcc | taatggttac | 1080 |
| tgagggggac | agaatgggtt | caaagttcct | ccaaagctcc | atccttaaag | aatcatcact | 1140 |
| atttgacatg | tccaatagtt | ccctgaaatt | tccattccca | agcttgtctt | catttgacct | 1200 |
| gactcagagc | ttgctctgtg | tgaatagccc | tattcttagg | gtgtgtgttg | aaaacaatca | 1260 |
| gtagcagctg | tttaacatca | tagttgctgg | aaatagcaat | attaattgaa | gcttacaagg | 1320 |
| ggctgcccac | aaaacttaaa | agcaaaatcc | catagggggg | atagaaaagc | tctaaaatat | 1380 |
| tcctagagag | tcacatgcat | gagaagagct | gtgcacatgc | ccaggaaaag | cctgagaagg | 1440 |
| tcctaattctc | tcacctctgg | ctgatcttga | ggctctgtgt | aagcagagt | tgaaagctaa | 1500 |
| ggcaaatgta | taaattgcct | gttgaagcat | caaatacatg | cccccaact | cacacagccc | 1560 |
| ctctgcaaa | gttgggaaac | ttgcaaggaa | tttaaggaaa | tctctgttca | gtcattagcc | 1620 |
| agccactaaa | ctaactgagc | agatccttca | gtgatcacac | acaacaaga | atacagactt | 1680 |
| tacagactta | gtcctagaaa | atcactacac | aaacagcaac | aacaatgcac | ctgggactaa | 1740 |
| gggagaggag | atgagttcca | gagttggtat | attattttaa | tgtctagttt | tcaataaaaa | 1800 |
| caattataag | acacagagca | aaactagaaa | gtatggccca | taccagggga | aaaacaagca | 1860 |
| accaatagaa | gctgtccttg | aggaagttaa | tatcttggac | ttactagaaa | atgactttaa | 1920 |
| cactagttat | tataaatatg | ttcaaaaaac | taaaagaggc | caggtgcgga | ggctcacgcc | 1980 |
| tataatccca | gcactttggg | aggctgaagc | agggtgggtca | cctgaggtca | ggagtttgag | 2040 |
| accagcctga | ccaatatggc | aaaaccctat | ctctactaat | aatacaaaaa | ttagccaggc | 2100 |
| gttgtggcgc | acacctgtaa | tcccagctac | ttgggaggct | gaagcaggag | aactgcttga | 2160 |
| aactgggagg | aagaggttgc | agtaagctga | gatcacacca | ctgtactcca | gcctggggcca | 2220 |
| caagagttaa | actccatctc | caaaaaaaaa | aaaaaaaaaa | aaaaccctaa | aattaaccat | 2280 |
| atctaaagaa | ttaaaggaaa | gtttgagaac | aatatctcac | caatacagaa | tatcaataaa | 2340 |
| aatataaaaa | ttatttttaa | agaaccaa | aggaattctg | gaattttaa | tgtaggaact | 2400 |
| gaaatgaaaa | attcactacg | ggggctgaac | agtagatttg | aactggcaga | agaagaatca | 2460 |
| acatacatga | agataggttg | attgagatga | ttcagtatga | gaaagaaaaa | aaaaaaaaaa | 2520 |

<210> 423

<211> 1462

<212> DNA

<213> Homo sapiens

<400> 423

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|------|
| ggccatcggc | ggggcagtcg | cgggatgcgc | ccgggagcca | cagcctgagc | tttagcccat | 60 |
| gaggaggatg | tgaccgggac | tgagtcagga | gccctctgga | agcatggaga | ctgtgggtgat | 120 |
| tggttgccata | ggtgtgctgg | ccaccatctt | tctggcttcg | tttgacgcct | tggtgctggt | 180 |
| ttgcaggcag | cgctactgcc | ggccgcgaga | cctgtgcag | cgctatgatt | ctaagcccat | 240 |
| tggtggacctc | attggtgcca | tgagagccca | gtctgagccc | tctgagttag | aactggacga | 300 |
| gtcgtttatc | accaaccccc | acattgaggc | cattctggag | aatgaagact | ggatcgaaga | 360 |
| tgctcgggtg | ctcatgtccc | actgcattgc | catcttgaag | atttgtcaca | ctctgacaga | 420 |
| gaagctttgtt | gccaatgaca | tggtctctgg | ggccaagatg | aagacttcag | ccagtgtcag | 480 |
| cgacatcatt | gtgggtggcca | agcggatcag | ccccagggtg | gatgatgttg | tgaagtcgat | 540 |
| gtaccctccg | ttggacccca | aactcctgga | cgcacggacg | actgccttgc | tcctgtctgt | 600 |
| cagtcacctg | gtgctgggtga | caaggaatgc | ctgccatctg | acgggaggcc | tggaactggat | 660 |
| tgaccagtct | ctgtcggctg | ctgaggagca | tttggaaagtc | cttcgagaag | cagccctagc | 720 |
| ttctgagcca | gataaaggcc | tcccaggccc | tgaaggcttc | ctgcaggagc | agtctgcaat | 780 |
| ttagtgccta | caggccagca | gctagccatg | aaggcccctg | ccgccatccc | tgatggctc | 840 |
| agcttagcct | tctacttttt | cctatagagt | tagttgttct | ccayggctgg | agagtccagc | 900 |
| tggtgtgtgca | tagtaaagca | ggagatcccc | gtcagtttat | gcctcttttg | cagttgcaaa | 960 |
| ctgtggctgg | tgagtggcag | tctaatacta | cagttagggg | agatgccatt | cactctctgc | 1020 |
| aagaggagta | ttgaaaactg | gtggactgtc | agctttatct | agctcaccta | gtgttttcaa | 1080 |
| gaaaattgag | ccaccgtcta | agaaatcaag | aggtttcaca | ttaaaattag | aattttctggc | 1140 |
| ctctctcgat | cggtcagaat | gtgtggcaat | tctgatctgc | atcttcagaa | gaggacaatc | 1200 |
| aattgaaact | aagtaggggt | ttcttctttt | ggcaagactt | gtactctctc | acctggcctg | 1260 |
| tttcatttat | ttgtattatc | tgcttggtcc | ctgaggcgtc | tggtctctct | ctctcccttg | 1320 |
| caggtttggg | tttgaagctg | aggaactaca | aagttgatga | tttctttttt | atctttatgc | 1380 |

ctgcaatttt acctagctac cactaggtgg atagtaaatt tatacttatg tttccctcaa 1440
 aaaaaaaaaa aaaaaactcg ag 1462

<210> 424

<211> 1635

<212> DNA

<213> Homo sapiens

<400> 424

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggcagcagg | gacctgctgc | tgggtgggcac | ccaacagctg | ggggagttcc | agtgtgtgtc | 60 |
| actagaggag | ggcttccagc | agctggttagc | cagctactgc | ccagaggtgg | tggaggacgg | 120 |
| ggtggcagac | caaacagatg | aggggtggcag | tgtaccctgc | attatcagca | catcgcgtgt | 180 |
| gagtgccacca | gctggtggca | aggccagctg | gggtgcagac | aggctcctact | ggaaggagtt | 240 |
| cctggtgatg | tgcacgctct | ttgtgctggc | cgtgctgctc | ccagttttat | tcttgctcta | 300 |
| ccggcaccgg | aacagcatga | aagtcttcct | gaagcagggg | gaatgtgcca | gcgtgcaccc | 360 |
| caagacctgc | cctgtggtgc | tgccccctga | gacccgccca | ctcaacggcc | tagggccccc | 420 |
| tagcacccca | ctcgatcacc | gagggtagca | gtccctgtca | gacagccccc | cgggggcccc | 480 |
| agtcttcaact | gagtcagaga | agaggccact | cagcatccaa | gacagcttcg | tggaggatc | 540 |
| cccagtgtgc | ccccggcccc | gggtccgcct | tggctcggag | atccgtgact | ctgtggtgtg | 600 |
| agagctgact | tccagaggac | gctgccctgg | cttcaggggc | tgtgaatgct | cggagagggg | 660 |
| caactggacc | tccccctcgc | tctgctcttc | gtggaacacg | accgtggtgc | ccggcccttg | 720 |
| ggagccttgg | agccagctgg | cctgctgctc | tccagtcaag | tagcgaagct | cctaccaccc | 780 |
| agacacccaa | acagccgtgg | cccagaggt | cctggccaaa | tatggggggc | tgcctaggtt | 840 |
| ggtggaacag | tgctccttat | gtaaaactgag | ccctttgttt | agaaaacaat | tccaaatgtg | 900 |
| aaactagaat | gagaggggaag | agatagcatg | gcattgcagca | cacacggctg | ctccagttca | 960 |
| tggcctccca | ggggtgctgg | ggatgcatcc | aaagtgggtg | tctgagacag | agttggaaac | 1020 |
| cctcaccaac | tggcctcttc | accttccaca | ttatcccgct | gccaccggct | gccctgtctc | 1080 |
| actgcagatt | caggaccagc | ttgggtgctg | tgcgttctgc | cttgccagtc | agccgaggat | 1140 |
| gtagttgttg | ctgcctgctg | cccaccacct | cagggaccag | agggctaggt | tggcactgctg | 1200 |
| gccctcacca | ggtcctgggc | tcggacccaa | ctcctggacc | tttccagcct | gtatcaggct | 1260 |
| gtggccacac | gagaggacag | cgagagctca | ggagagattt | cgtgacaatg | tacgcctttc | 1320 |
| cctcagaatt | caggggaagag | actgtgcct | gccttctctc | gttgttgctg | gagaacccgt | 1380 |
| gtgccccctc | ccaccatc | caccctcgct | ccatctttga | actcaaacac | gaggaactaa | 1440 |
| ctgcaccctg | gtcctctccc | cagtcctccg | ttcaccctcc | atccctcacc | ttcctccact | 1500 |
| ctaagggata | tcaaacactgc | ccagcacagg | ggccctgaat | ttatgtggtt | tttatatatt | 1560 |
| ttttaataag | atgcacttta | tgtcattttt | taataaagtc | tgaagaatta | ctgtttaaaa | 1620 |
| aaaaaaaaaa | aaaaa | | | | | 1635 |

<210> 425

<211> 2079

<212> DNA

<213> Homo sapiens

<400> 425

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| catgaggatt | caacaacccc | tgtggctaac | cctctgcttg | catttactct | catcaaacgc | 120 |
| ctgcagtctg | actggaggaa | tgtgttacat | agtctggagg | ccagtgagaa | catccgagct | 180 |
| ctgaaggatg | gctatgagaa | ggtggagcaa | gaccttccag | cctttgagga | ccttgaggga | 240 |
| gcagcaagg | ccctgatgctg | gctgcaggac | gtgtacatgc | tcaatgtgaa | aggcctggcc | 300 |
| cgaggtgtct | ttcagagagt | cactggctct | gccatcactg | acctgtacag | ccccaaacgg | 360 |
| ctcttttctc | tcacagggga | tgactgcttc | caagttggca | agggtggccta | tgacatgggg | 420 |
| gattattacc | atgccattcc | atggctggag | gaggctgtca | gtctcttccg | aggatcttac | 480 |
| ggagagtgg | agacagagga | tgaggcaagt | ctagaagatg | ccttgatca | cttggccttt | 540 |
| gcttatttcc | gggcaggaaa | tgtttcgtgt | gccctcagcc | tctctcggga | gttcttcttc | 600 |
| tacagccccc | ataataagag | gatggccagg | aatgtcttga | aatatgaaag | gctcttggca | 660 |
| gagagcccca | accacgtggt | agctgaggct | gtcatccaga | ggcccaatat | acccacactg | 720 |
| cagaccagag | acacctacga | ggggctatgt | cagaccctgg | gttcccagcc | cactctctac | 780 |
| cagatcccta | gcctctactg | ttcctatgag | accaattcca | acgcctacct | gctgctccag | 840 |
| cccattccgga | aggaggtcat | ccacctggag | ccctacattg | ctctctacca | tgacttcgtc | 900 |
| agtgactcag | aggctcagaa | aattagagaa | cttgacagaa | catggctaca | gaggtcagtg | 960 |
| gtggcatcag | gggagaagca | gttacaagtg | gagtaccgca | tcagcaaaaag | tgccctggctg | 1020 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| aaggacactg | ttgacctaaa | actggtgacc | ctcaaccacc | gcattgctgc | cctcacaggc | 1080 |
| cttgatgtcc | ggcctcccta | tgcagagtat | ctgcagggtg | tgaactatgg | catcggagga | 1140 |
| cactatgagc | ctcactttga | ccatgctacg | tcaccaagca | gccccctcta | cagaatgaag | 1200 |
| tcaggaaaacc | gagttgcaac | atztatgac | tatctgagct | cggtggaagc | tggaggagcc | 1260 |
| acagccttca | tctatgccaa | cctcagcgtg | cctgtgggta | ggaatgcagc | actgttttgg | 1320 |
| tggaaacctgc | acaggagtgg | tgaaggggac | agtgcacac | ttcatgctgg | ctgtcctgtc | 1380 |
| ctggtggggag | ataagtgggt | ggccaacaag | tggatacatg | agtatggaca | ggaattccgc | 1440 |
| agaccctgca | gctccagccc | tgaagactga | actgttggca | gagagaagct | ggtggagtcc | 1500 |
| tgtggctttc | cagagaagcc | aggagccaaa | agctggggta | ggagaggaga | aagcagagca | 1560 |
| gcctcctgga | agaaggcctt | gtcagctttg | tctgtgcctc | gcaaatcaga | ggcaagggag | 1620 |
| aggttgttac | caggggacac | tgagaatgta | catttgatct | gccccagcca | cggaagtcag | 1680 |
| agtaggatgc | acagtacaaa | ggagggggga | gtggaggcct | gagagggaag | tttctggagt | 1740 |
| tcagatactc | tctgttggga | acaggacatc | tcaacagtct | caggttcgat | cagtgggtct | 1800 |
| tttggcactt | tgaaccttga | ccacagggac | caagaagtgg | caatgaggac | acctgcagga | 1860 |
| ggggctagcc | tgactcccag | aactttaaga | ctttctcccc | actgccttct | gctgcagccc | 1920 |
| aagcagggag | tgtccccctc | ccagaagcat | atcccagatg | agtggtagat | tatataagga | 1980 |
| ttttttttta | gttgaataca | actttctttt | ctttttgtat | gatgggtttt | taacacagtc | 2040 |
| attaaaaatg | tttataaatc | aaaaaaaaaa | aaaaaaaaaa | | | 2079 |

<210> 426

<211> 2657

<212> DNA

<213> Homo sapiens

<400> 426

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| accatggtag | tctgttcag | gtgggtccca | gtcacagatg | cctattggca | gattctcttc | 120 |
| tccgtctcta | aggtcaccag | aaacctgaag | gagctggacc | taagtggaaa | ctcgctgagc | 180 |
| cactctgcag | tgaagagtct | ttgtaagacc | ctgagacgcc | ctcgctgcct | cctggagacc | 240 |
| ctgcggttgg | ctggctgtgg | cctcacagct | gaggactgca | aggacctgca | ctttgggctg | 300 |
| agagccaacc | agaccctgac | cgagctggac | ctgagcttca | atgtgctcac | ggatgctgga | 360 |
| gccaaacacc | tttgccagag | actgagacag | ccgagctgca | agctacagcg | actgcagctg | 420 |
| gtcagctgtg | gcctcacgtc | tgactgctgc | caggacctgg | cctctgtgct | tagtgccagc | 480 |
| cccagcctga | aggagctaga | cctgcagcag | aacaacctgg | atgacgttgg | cgtgcgactg | 540 |
| ctctgtgagg | ggctcagcat | cctgcctgca | aactcatagc | cctggggctg | gaccagacaa | 600 |
| ctctgagtga | tgagatgagg | caggaaactga | gggcccctga | gcaggagaaa | cctcagctgc | 660 |
| tcactcttcag | cagacggaaa | ccaagtgtga | tgacccttac | tgaggccctg | ataggggaga | 720 |
| gatgagtaat | agcacatcct | cactcaagcg | gcagagactc | ggatcagaga | gggaggcttc | 780 |
| ccatgttgct | caggctaate | tcaaacctct | ggacgtgagc | aagatcttcc | caattgctga | 840 |
| gattgacagag | gaaagctccc | cagaggtagt | accggtggaa | ctcttgtgca | tgcttctctc | 900 |
| tgcctctcaa | ggggacctgc | atacgaagcc | tttggggact | gacgatgact | tctggggccc | 960 |
| cacggggcct | gtggctactg | aggtagtgtg | caaagaaaag | aacttgtacc | gagttcactt | 1020 |
| cctgttagct | ggctcctacc | gctggcccaa | cacgggtctc | tgctttgtga | tgagagaagc | 1080 |
| ggtgaccgtt | gagattgaat | tctgtgtgtg | ggaccagttc | ctgggtgaga | tcaaccaca | 1140 |
| gcacagctgg | atggtggcag | ggcctctgct | ggacatcaag | gctgagcctg | gagctgtgga | 1200 |
| agctgtgcac | ctcccact | ttgtggctct | ccaagggggc | catgtggaca | catccctgtt | 1260 |
| ccaagtggcc | cactttaaag | aggaggggat | gctcctggag | aagccagcca | gggtggagct | 1320 |
| gcatacacata | gttctggaaa | accccagctt | ctcccccttg | ggagtcctcc | tgaaaatgat | 1380 |
| ccataatgcc | ctgcgcttca | ttcccgtcac | ctctgtgttg | ttgctttacc | accgcgtcca | 1440 |
| tcctgaggaa | gtcaccttcc | acctctacct | gatcccaagt | gactgctcca | ttcggaagga | 1500 |
| actggagctc | tgctatcgaa | gccctggaga | agaccagctg | ttctcggagt | tctacgttgg | 1560 |
| ccacttggga | tcagggatca | ggctgcaagt | gaaagacaag | aaagatgaga | ctctggtgtg | 1620 |
| ggaggccttg | gtgaaaccag | gagatctcat | gcctgcaact | actctgatcc | ctccagccc | 1680 |
| catatccgta | ccttcacctc | tggatgcccc | gcagttgtcg | cactttgttg | accagtatcg | 1740 |
| agagcagctg | atagcccag | tgacatcggt | ggaggttgtc | ttggacaaac | tgcatggaca | 1800 |
| ggtgctgagc | caggagcagt | acgagagggg | gctggctgag | aacacgaggc | ccagccagat | 1860 |
| gcggaagctg | ttcagcttga | gccagtcctg | ggaccggaag | tgcaaagatg | gactctacca | 1920 |
| agccctgaag | gagaccatc | ctcactcatt | atggaactct | gggagaagg | cagcaaaaag | 1980 |
| ggactcctgc | cactcagcag | ctgaagtatc | aacactagcc | cttgaccctt | gagtcctggc | 2040 |
| tttggctgac | ccttcttttg | gtctcagttt | ctttctctgc | aaacaagttg | ccatctggtt | 2100 |
| tgccttccag | cactaaagta | atggaacttt | gatgatgcct | ttgctgggca | ttatgtgtcc | 2160 |

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|------|
| atgccaggga | tgccacaggg | ggccccagtc | caggtggcct | aacagcatct | cagggaaatgt | 2220 |
| ccatctggag | ctggcaagac | ccctgcagac | ctcatagagc | ctcatctggt | ggccacagca | 2280 |
| gcacaagcct | agagcctccg | gatcccatcc | aggcgcaaaag | aggaatagga | gggacatgga | 2340 |
| accatttgcc | tctggctgtg | tcacagggtg | agcccaaaa | ttgggggttca | gcgtgggagg | 2400 |
| ccacgtggat | tcttggtttt | gtacaggaag | atctacaaga | gcaagccaac | agagtaaagt | 2460 |
| ggaaggaagt | ttattcagaa | aataaaggag | tatcacagct | cttttagaat | ttgtctagca | 2520 |
| ggctttccag | tttttaccag | aaaaccctta | taaattaaaa | attttttact | taaatttaag | 2580 |
| aattaaaaaa | atacaaaaaa | gaaaaaatga | aaataaagga | ataagaagtt | acctactcca | 2640 |
| aaaaaaaaaa | aaaaaaa | | | | | 2657 |

<210> 427

<211> 2410

<212> DNA

<213> Homo sapiens

<400> 427

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| ctctcgggac | tgctcctgct | gctctggccg | ctgctgctgc | tgctgcccgc | gacccccgcc | 120 |
| gccccgggcc | ccctggcccc | ccggggtttg | cggaggctgg | gcacgcgggg | cccagggggc | 180 |
| agtcgccggc | gccgccctgt | ctctgctgtc | cccaccgcg | cgccctatc | cggggccggc | 240 |
| cagccccggc | ggccccgagg | cgcagggtgt | tgcaggagca | ggcccttgga | tttggtgttc | 300 |
| atcatcgata | gttccgcgag | tgtgcggccc | ctggagttca | ccaaagtga | gacctttgtc | 360 |
| tcccagataa | ttgacactct | ggacattggg | gcggcagata | cacgggtggc | agtgggtgaac | 420 |
| tatgctagca | ccgtgaagat | tgagttccat | ctccagacce | actcagataa | acagtccttg | 480 |
| aaacaggctg | tggtcggat | cacaccctg | tctacaggca | ccatgtccgg | cctggctatc | 540 |
| cagacagcaa | tggtgaggg | cttcacgggt | gaggcaggag | ctcggggggc | cacttccaac | 600 |
| atccctaagg | tggtccatcat | cgtgacagat | gggaggcccc | aggaccaggt | gaatgaggtg | 660 |
| gcggctcggg | cccgggcatc | tggtattgaa | ctctacgccg | tgggcgtgga | ccgggcagac | 720 |
| atggagtcct | tcaagatgat | ggccagcgag | cccctagacg | agcacgtttt | ctatgtggag | 780 |
| acctacgggg | tcattgagaa | actctcctct | agattccagg | aaaccttttg | cgctctggac | 840 |
| ccgtgtgtgc | ttggcacaca | ccgtgtccag | cacgtgtgtg | tcagtgatgg | ggaaggcaag | 900 |
| caccactgtg | agtgcagcca | aggctactcc | ttgaacgccg | atcagaagac | gtgttcagct | 960 |
| atcgataaag | gtgctctgaa | cactcacggg | tgtgaacaca | tctgtgtgaa | cgacagaact | 1020 |
| ggctcttacc | actgtgagtg | ctacgaaggt | tacaccctga | accaagacag | gaagacttgt | 1080 |
| tcggctcaag | accaatgtgc | ctttggtaca | catggctgcc | agcacatttg | tgtaaatgac | 1140 |
| agagatgggt | cccatcactg | tgaatgctac | gagggttata | ctctgaatgc | tgacaacaaa | 1200 |
| acgtgttcag | ttcgcagcga | gtgtgctggg | ggctcgacg | gctgccagca | cctgtgtgtg | 1260 |
| gacgacgggc | ccgcggccta | tactgcgat | tgtttccccg | gctacaccct | gaccgaagac | 1320 |
| cggaggacgt | gcgcagccat | tgaagaagca | cgaagactcg | tctctacaga | agatgcttgt | 1380 |
| gggtgtgaa | ccaccctggc | cttcaggag | agggccagct | catatctgca | gagactgaat | 1440 |
| gccaaactcg | atgatatttt | gggcaagttg | caagcagatg | cgtatggaca | aatacatcgt | 1500 |
| tgaattactc | agatttttca | cctggatata | cggagagctt | ggtctattta | atatttttgc | 1560 |
| atacttcaat | gttcctgcta | ataatttgcc | attgcaaatg | ctttaatatt | actggataag | 1620 |
| tagtatgagg | atcttctaga | gaatcagtag | gacataaacg | ttcacatcct | taagagcaaa | 1680 |
| cttttagtgc | tctaagctat | gactgtgaaa | tgattcatgg | ggaatagaat | gaaaagtgtg | 1740 |
| gtatctcttt | atttaccaat | tgagccattt | aattttttaa | tgtttatatt | agtaagataa | 1800 |
| ccattcttac | aatgggaact | ttttatctat | tttctcttga | tagtatattt | agtataaacc | 1860 |
| agttttatta | ttgagagtgt | aaattatata | agtattttaca | cataaaaaag | ttcatataat | 1920 |
| tgaggtaaat | ataattttaga | actgtttctt | taatgctttg | ttttttgctc | actttttgct | 1980 |
| ggaatatcac | tgaagctgtg | atcaggggat | tataacacat | atcaagatca | agtgaacact | 2040 |
| acatgaaata | ttgtaagaaa | cacataacta | aagacttttag | ttttgaatta | agtgttataa | 2100 |
| cttctttacca | agtttttggt | aaaaatccta | cattatcttt | actgtttcac | tttaggattc | 2160 |
| aatcaagaaa | attatatact | tataaatatt | gatctaaaaa | gttaacaaca | aacccaatgt | 2220 |
| gcctatttta | agttttaagc | ttaacttttc | ttcacttaca | tatttagtat | atgtatttta | 2280 |
| tttttccgct | tgaagcctta | tagctcttag | gagaaaacca | tcctttaaat | tgtgactact | 2340 |
| cattttttct | gtttgtattg | tcttttagtat | aataaaaagt | tactatcttt | ataaaaaaaa | 2400 |
| aaaaaaaaaa | | | | | | 2410 |

<210> 428

<211> 2131

<212> DNA

<213> Homo sapiens

<400> 428

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| ctccgacccc | gccgcgcgca | ccatgcagcc | ccccagcctg | ctgctgctcg | tcctcgggct | 120 |
| gctcgtctcg | cccgcgcgcg | cgctcgtccg | aatcccgtg | cacaagttca | cctctgtgcg | 180 |
| ccggaccatg | tcggagtttg | ggggccccgt | ggaggatctg | atcgccagag | gccccatttc | 240 |
| aaataacgcc | caggggggtgc | ccagtgtggc | gggggggtccc | gttcgggagg | tgctcaggaa | 300 |
| ctacatggac | gcgcagtact | acggggagat | cggcacggg | acgccccgc | agtgttcac | 360 |
| cgctcgtctt | gacacgggct | cctccaacct | gtgggtcccc | tcgatccact | gcaagctgct | 420 |
| ggacatcgcc | tgctggatcc | accacaagta | caacagcggc | aagtccagca | cctacgtgaa | 480 |
| gaacggcacc | agcttcgaca | tccactacgg | ctccggcagc | ctctccgggt | acctgagcca | 540 |
| ggacaccgtg | tcggtgccct | gtaagtcggg | tctgtcgagc | ctggctggcg | tcaaggtgga | 600 |
| gaggcagacg | ttcgggggaag | ccaccaagca | gccgggcac | accttcacg | cgccaagt | 660 |
| cgacggcatc | ctgggcatgg | cctacccccg | catctcggtc | aacaatgtgc | ttcccgctt | 720 |
| tgataacctg | atgcagcaga | agctgggtga | gaagaacatc | ttctctttct | acctgaacag | 780 |
| ggacccccgg | gcgcagcctg | gggtgagct | catgctggg | ggcacagact | ccaagtacta | 840 |
| caaggggtccc | ctgtcctacc | tcaacgtgac | ccgcaaggcg | tactggcagg | tccacatgga | 900 |
| acaggtggac | gtgggcagca | gcctgacct | gtgcaagggg | ggctgcgagg | ccatcggtga | 960 |
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| cggggcccgtg | ccgttgatcc | agggcgagta | catgatcccc | tgtgagaagg | tgtccacctt | 1080 |
| gcccggaggtc | acctgacgc | tgggcggcaa | accctacaag | ctgtcgtcag | aggactacac | 1140 |
| gctcaagggtg | tcgcaggggc | ggaagtccat | ctgcttgagc | ggcttcattg | gcatggacat | 1200 |
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| cgtgttcgac | cgggaccaga | accgcgtggg | cctggccgag | gccaccaggc | tctagctgcc | 1320 |
| cgcccgtg | ggaggacggg | gtccggcagg | aggaggtg | ccgccccgcc | ctcccgcca | 1380 |
| cccctgccgc | acacactcac | gctcagactc | acactcaaag | cccagctctg | caggcgccgg | 1440 |
| gctgtcgggc | tgccgttttg | ttctgtggtt | tccccggcct | tgggtgtgtct | gtctgtctag | 1500 |
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| ccggcccagg | tagttcccc | cccccccc | agcccgtgct | tcgggggcct | ggctgcccag | 1680 |
| gcaggacttc | tggactgagc | ccccaccca | ggccaggctg | ttctctgggc | ttctcctcct | 1740 |
| gggggtctggt | ctgggggtcca | gagcggggca | ctgctggcct | gtcttccgt | gtggcccatc | 1800 |
| gtggaaggga | cccgcggagg | cccaaggaca | agcaggaagg | gcttggaagg | gtcgggactc | 1860 |
| agggacaaaa | ggcagccttg | tgatgccttt | ggggctctcc | tggggcttga | ccccatctag | 1920 |
| gagggcattt | gctggtgccg | ggttggggaa | gaaggggagg | ggggggctgg | tgccaccttc | 1980 |
| tgtgagcttt | tccccctctg | agtgaccagg | agccgaagtg | aacgtggaaa | tacagtcgtc | 2040 |
| tgggcctcaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 2100 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | a | | | 2131 |

<210> 429

<211> 2794

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (164)..(164)

<223> n equals a,t,g, or c

<400> 429

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| taagcccttg | cactaaaaat | gctggtagtg | tttaaattcc | tcccgtag | ttcaagtggg | 120 |
| cgcttttcat | cgtaacatt | gtatcacccg | gtgcaccacc | agancgtttt | ttcgaggaa | 180 |
| gcgaagtc | ttctccggc | gtctacactt | aacttgtata | ttgttctag | ccaatttcag | 240 |
| tcacttcaga | aactttactg | tggcgtaatt | ccagttctta | ggtacgcgag | catagagtga | 300 |
| aaaaatagct | gtgattgttc | ttatgtaaaa | atcaaagctc | caatggaagt | taatgaatac | 360 |
| ctttgtaata | atggaatcta | tttgcccttt | atttcttaat | cttctgtttt | aaactgctgc | 420 |
| tattaaaaac | acacccatgt | tattaggttt | acggaagtgt | agctgtcgtt | caagttcttg | 480 |
| gcgtccggaa | aggtgtccgt | gcatgggct | tgtgaccgg | tcctggatac | accagaaaca | 540 |
| tcaccttctt | gccacctaaa | agagaatcgc | actcacaac | gctgtcaca | ccgtctttat | 600 |

| | | | | | | |
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| gacatcaatc | tcccttggtc | cggttctctt | tttacaaaa | agaatttact | tcattaaca | 660 |
| atttccgtct | ctagtttaaa | cagaaggtgg | aaaaaaatag | accccggtct | agactcattt | 720 |
| tctccagtc | acattggaat | gggtttaaga | atattctctt | ccaaacaaaa | caagacgatt | 780 |
| tgtactttgt | gtctaagatg | tctaagatga | aacgtttaaa | actctgatta | ccacaatttt | 840 |
| ggattttttg | ttaaaatcaa | atgtattttc | aaacttactg | tgttacaata | ttatagttaa | 900 |
| aaagtacagg | gagagcagaa | gccctgatct | aagaggtag | tcattgtcct | catgttgctg | 960 |
| ctaacttgaa | ttgcagaaga | gaaaatctca | gtgccttctg | cctggctttt | tgatggagtt | 1020 |
| tgcttaacac | ccttcattct | tctgtttctc | tccatgtaac | taaatgacgt | tttaaaaatt | 1080 |
| cagtgtctgag | gtgtctgggt | agcacagcgg | ttgagcctcc | gatttttggg | ttcaactcag | 1140 |
| gtcacgatct | cagggtcagt | ggatcgagcc | ccacaacagg | ctccacgctc | agccgggagt | 1200 |
| gtgcttaagt | ttctcgctct | gccccgtccc | ttccccctcc | cctgtgcgtg | gcacctatgc | 1260 |
| actctctctc | tcaaataaac | aaataaatct | ttaaaaataa | ataaataaaa | cacagtgcac | 1320 |
| accataaaaa | atagagtaat | atgcgttagg | gaagcatttg | agatcatgca | tagcttatat | 1380 |
| atttcaaaaa | ggatttggtc | acatcagtac | aatagataga | tataaaagaa | gcaattcttg | 1440 |
| gagcgtctgg | gtaaagaagg | tagtgctccg | gctcagcagg | ctttcccgtc | aagccactga | 1500 |
| tctccacccg | gctctcccgt | gttccctctc | aataactgag | tgtagtctat | gagcagatgc | 1560 |
| tgcttctctg | cacataaagt | atccttaact | tttactttgc | tttgagttaa | aaccagcatt | 1620 |
| gaaatgtaaa | tcacgtcttc | ctcatgcatg | aaattgtgag | ggaagtcaga | gaggttctct | 1680 |
| aagagtttat | ttagcaatga | ggaaacagga | caaagaggag | gtagtcccat | agtggggagg | 1740 |
| gtgggagggc | gggtctgccc | ggcagcactg | ggtccagcgt | ctccccctcc | ctagctttct | 1800 |
| cccaattttc | tttaggaaaa | atgatgtcat | agttagattt | cctataacag | aatgtttcta | 1860 |
| aggttctactg | tatggacca | gacccacagc | ggttgtctta | taagcgaact | tagaacggat | 1920 |
| gctgggaact | aagtacttga | gtgttgactt | gctcacctgc | gtgggacaga | gggacaagcc | 1980 |
| agcaagcccc | catgaagtga | cgggcagccc | cacctgggcc | ctggagagac | cgacgcaccc | 2040 |
| tctcagctgg | ggtgcagaga | aaggattggg | ttgggggata | gcagtggact | gtcagaagaa | 2100 |
| cttacgggat | cctattgtaa | tgtaagctat | gaatcaggct | tgctgtcctg | ggactgaggt | 2160 |
| tgtaaccctg | gaacgacgca | ccaacacagg | cagctgatgc | gtttgtcttg | gcttccaatt | 2220 |
| tgctaataata | aaaatctaga | cttgtttcat | gaaaacagga | catttaaaaca | ttctatgaat | 2280 |
| atttccaaaa | aatatttggg | gaaacctatg | tacacatttc | tggttgactg | acacctagaa | 2340 |
| atcaaatgtg | tgtgacagag | gatgtgccta | tgttcagctt | cagtaaatac | tgccggagag | 2400 |
| atctctgaat | gataaacagt | taacggaaaa | tgcacacaaa | ccaggctgtt | ggaggcaaca | 2460 |
| acccattggg | ctagtttctg | gtggcctgct | gcagccacgc | aggcgagcac | tgggcttcag | 2520 |
| actgcacggg | actctctttg | tccacctgtc | ctgtgcctgg | ccccacacca | ggatgctggc | 2580 |
| gattatcaaa | tacactttac | tggtgattac | ctttgagcat | atttgctttc | acaaatcagt | 2640 |
| tctgtaaact | tgtgtgcatt | gggctaaatt | ttacaaacta | atcattgggt | aaaaggaagt | 2700 |
| ggcctaaggt | ccccagttct | gctgatatca | gggcagctgc | tcctttgggg | ttcctcgtct | 2760 |
| tccatgggtg | aagcatggga | gtgagggggc | ccat | | | 2794 |

<210> 430

<211> 2048

<212> DNA

<213> Homo sapiens

<400> 430

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| gaccattgct | attatccaga | tcattttctaa | ggattcgggt | tctgccattt | ctgacagctg | 120 |
| cttgaggccg | agtgaacgtg | gttttggaag | attgcttaaa | caaagaatgg | aggccagagt | 180 |
| gggtgcacga | ttgcagaaaa | ggcaagtgtc | acttctttgt | gtgtttcttg | gagtgtcttg | 240 |
| ggctggcgca | gaacctcttc | ggtattttgt | ggcagaggaa | acggagagag | ggacctttct | 300 |
| ggccaacctc | gcaattgac | tggtggttagg | ggtggaggaa | ctgtcagctc | ggggatgtag | 360 |
| aattgtttca | gatgagacca | taggattttt | actcctcaat | ccgcttactg | gtgatttact | 420 |
| tctaaatgag | aaattagacc | gagaggaact | gtgtggcccc | acagagccat | gtgtgttgcc | 480 |
| tttccagttg | ttacttgaaa | agccttttca | gattttccgt | gctgaactat | gggtcagaga | 540 |
| catcaacgat | cattctccag | tatttctaga | tagagagatt | accttgaaca | tattagaaag | 600 |
| taccactcca | ggggcaacat | ttctcctaga | aagtgcacat | gattcagatg | ttggaatcaa | 660 |
| caacctgaga | aactacacca | tcagctccaa | tgtttatttc | catattaatg | tccatgataa | 720 |
| cggggaaggg | aatgtttatt | ccgaattggg | actagataaa | gtgctggatc | gtgaagaggt | 780 |
| tcctgagctg | cgtttaaccc | tcaccggctt | ggatggcggt | tctccgcccc | gatccggaac | 840 |
| caccctcata | cgcatcctgg | ttttggacat | aaatgacaac | gtccctgaat | ttgtagagtc | 900 |
| gctttacaag | gtccaggtgc | ctgagaacag | ccctgttggg | tccttggttg | tcactgtgtc | 960 |
| agctagagat | ttagataaccg | gaagtaatgg | agaaatcgtc | tatgcatttt | tttacgctac | 1020 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tgaagaact | ctcaaaacgt | ttcgaatcaa | ttcaacatct | ggcaatcttc | atcttaaagc | 1080 |
| cgaattgaac | tacgaggcaa | tacaaactta | tacattaact | attcaggcca | aagatgggtg | 1140 |
| agggtcttct | ggaaaatgta | ctgtgggtgt | ccatgtaaca | gatataaacg | ataatccacc | 1200 |
| agaactgctc | atgtcatcac | ttactagccc | aatcccagaa | aactcaccag | agacagtagt | 1260 |
| cgctgttttt | aggattagag | acagagattc | agggaacaat | gcaaagatgg | tgtgctccat | 1320 |
| ccaagaccat | ctccccttcg | tcctgaagcc | atcagtagag | aatttctaca | ccttggtaac | 1380 |
| agagagagca | ctagacagag | aagaaagaac | cgagtacaac | atcaccatca | ccgtcaccga | 1440 |
| cctggggacc | cccaggctga | aaaccagca | caacctcacg | gtgaccgtgt | ccgacgtcaa | 1500 |
| cgacaacgcc | ccgaccttca | gccagacgac | ttacaccctg | cgcgtccgcg | agaacaacag | 1560 |
| ccccgcctg | cacatcgcca | gcgtgagcgc | caccgacaga | gactcgggcg | ccaacgcccc | 1620 |
| ggtcacctac | tcgtgctgc | cgccccacga | cccgcagctg | ccgctgggct | cgctggtgtc | 1680 |
| catcaacgcg | gacaacgggc | agctgttcgc | gctcaggtcg | ctggatttcg | aggcgctgca | 1740 |
| ggcgttcgag | ttccgcgtgg | gcgcggccga | ccgcggctcg | ccggcgctca | gcagccaggc | 1800 |
| gctggtgctc | gtgctggtgg | cggacgcca | cgacaacgcg | ccgttcgtgc | tgtaccgct | 1860 |
| gcagaacggc | tcggcgccct | gcaccgagct | ggtgccgcgg | gcggccgagg | cggtctacct | 1920 |
| ggtggccaag | gtggtggcgg | tggacggcga | ctcgggccag | aacgcctggc | tgtcgtacca | 1980 |
| gctgctcaag | gccacggagc | ccgggctggt | cggcgtgtgg | gcgcacaacg | gcgaggtgcg | 2040 |
| cacggcgc | | | | | | 2048 |

<210> 431

<211> 2406

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1934) .. (1934)

<223> n equals a,t,g, or c

<400> 431

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| ctgatgctac | tactgcagtc | tttatttttt | ccatgagct | gggggtcggg | tgggggagg | 120 |
| aaagggaggg | atgaccttcc | tagggagaag | ccacgacct | gtcctgtctt | tgatcgctc | 180 |
| tttgacattt | ttgccaaaat | accactagt | gaaagtcagg | ctagctgtgc | tcgtattgga | 240 |
| atagcagcct | cacactggcg | tctggactgt | tctgtagatg | gaatgcaagc | ggactgtctg | 300 |
| tctttaatct | aacttattgc | tagagaatag | ggttttaaga | cgaaaagaaa | actgaaacgg | 360 |
| gattggccct | cattcagtga | gttctgtggt | tccagtaagg | atgtgtatgt | acatacgctc | 420 |
| ttgtcttacg | ttttgggtac | tcttgtctca | tctgttttag | ctgtgctgtt | cttttcaggg | 480 |
| gtactcgac | cagccatgga | ctagtgtaaa | tcccgaacgg | acagacttgg | aacataaggc | 540 |
| gcgttgatcc | ttatggttta | ggcctggcca | gtttcccgag | tctcggatta | gctgacagta | 600 |
| ttaacactaa | attgcagttt | acagtatttc | tacatgacag | ccatacgtaa | catcaagcca | 660 |
| ttgattgtgt | attttccttt | gctagtttac | tttggtttg | catccgtagt | cagccttatc | 720 |
| caggttgggt | tttgctgttc | gccgtctccc | aggccacaag | gcttgccctga | ggggaatcgc | 780 |
| agctcctttt | agggttttgg | attagggtgct | tggcaggtgg | ctgtgggatt | tgtacccttc | 840 |
| ttcctcttaa | ctcaaatcca | ccgcaaaaat | gatgaatcac | tttaatagaa | acgttaaaca | 900 |
| ccacaaaaat | agagaaaatt | caggtctgta | tgtcattgat | tgtgttgata | ttttcagaga | 960 |
| actcctgatt | tttaagctgc | cacgctcctt | cctcagggat | cacgctgcca | tcactcttga | 1020 |
| gtgttccccc | ctggaccttc | tgtctggtgg | tctcgggacg | gtggagacgc | cgttgagctg | 1080 |
| gagaagctgg | gcagtcattc | tgaggaaggt | tgtggtgcag | tgtgtggaaa | tttaggtgct | 1140 |
| agaagcttac | tggtagaaaa | acccaaaagg | aagagaagag | ctcttctgtt | cataagcgct | 1200 |
| ctgtccgatt | tcgggagcct | cgtaagcatg | tccgtttttc | ctccccggaa | acactccttc | 1260 |
| cctaagcagt | tggtgtagga | aaacgaacta | aaggcattat | cagataataa | atcactccta | 1320 |
| tttgaccaag | acttttttcta | catttttttt | ttttcttttt | aatgaaagca | tcaaagcgag | 1380 |
| agagtccttt | ctctcttgta | cagttgacac | atgctctgga | atcgaaggaa | actacgttgc | 1440 |
| tgtttccaca | aatttgttct | cagtttagcc | ttaggtcctt | cattcttatt | ttggaaaaat | 1500 |
| ctgtctgaaa | aacgtgacct | gtcagagtgt | tgttcagcct | ttctttacaa | gaccagaaac | 1560 |
| ggtgtgaact | cccagatat | ggaggtata | acgcagact | cgctttgttg | gttgctgcgg | 1620 |
| tttagtcaag | gagaggtatg | aggaataatt | gaggaaacac | tgactgttgc | ttttgtctct | 1680 |
| ttaccagaat | cggacttaag | agttgggaaa | tgagtatgtg | tgacaggatc | caggtgaccg | 1740 |
| tgaggatgag | aacagtgatg | ccctggagca | tggcacagtc | taccagcat | gactttcctt | 1800 |
| agaaggttcc | ctccatacgc | tagagcaaaa | gtcccaatta | actgaaccct | agcagaacta | 1860 |

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|------|
| gaagagagct | gtacagcttt | tgtgccatca | cgggggccct | aaagtcaatg | ccatggatgg | 1920 |
| gaaattatgg | gggnttgggg | gggaggggta | ggtggggctt | tccttaactt | atcttcatgt | 1980 |
| ccagtggagca | gtgttttgtc | cttccttgta | gcctttggaa | atgatttact | ggaattacaa | 2040 |
| aacctatttt | ttctttttaa | tttcagcttt | ggctctggct | gctttttaga | ataatgcaag | 2100 |
| ataacagtta | tacctgaggg | ctaaaaatga | agaggggaacg | ggagacttga | tatttaagca | 2160 |
| gcttgaatgg | tttcttttct | tttctttatt | tttaaagaaa | tgcacttgcc | tctgatactg | 2220 |
| tctctccagt | gaaatgatta | ctcctccatt | actctattga | tacaatattg | tgcagtctag | 2280 |
| tgttgatttt | ctatacagta | gcttgaaatt | tattaaactta | tactgtagggt | gttatgtatt | 2340 |
| cctatgacaa | aaaaaattaa | gtcttcaaat | tttaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 2400 |
| aaaaaa | | | | | | 2406 |

<210> 432

<211> 1669

<212> DNA

<213> Homo sapiens

<400> 432

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| ggagagggag | gcaccatgaa | gactctcctg | ctgctggtgg | ggctgctgct | gacctgggag | 120 |
| aatggacggg | ttctgggaga | ccagatgggc | tcagacactg | agctccagga | aatgtccacc | 180 |
| gaggggagta | agtagattaa | tcgggaaatt | aaaaatgctc | tcaagggggt | gaagcagata | 240 |
| aagacactaa | tagaacaac | aaacgaggag | cgcaaatccc | tgctcaccaa | cttggaagaa | 300 |
| gccaagaaga | agaaagagga | tgccctgaat | gacaccaagg | attcagaaat | gaagctgaag | 360 |
| gcgtcgcagg | gggtgtgcaa | tgacaccatg | atggccctct | gggaggagt | taagccctgc | 420 |
| ctgaaacaga | cctgtatgaa | gttctacgcc | cgagtctgca | gaagcagcac | agggtcggtt | 480 |
| ggccaccagg | ttgaggagtt | cctgaaccag | agttctccct | tctacttctg | gattaatggc | 540 |
| gaccgcacgc | actccctgct | ggagaacgac | cggcagcaga | cccacgccct | ggatgtcatg | 600 |
| caggacagtt | tcgaccgggc | atccagcatc | atggatgagc | tggtccagga | cagattcttc | 660 |
| accctgtagg | cccaggaccc | tttccacttc | tcacccttca | gctcattcca | gcggaggcct | 720 |
| tttttcttca | atatcaagca | ccgctttgcc | cggaacataa | tgcccttccc | tggtaccag | 780 |
| cccttgaatt | tccacgacat | gtttcagccc | ttcttcgaca | tgatacacca | ggctcagcag | 840 |
| gcatgagatg | ttaacctgca | cagactcccc | cactttccaa | tggaattcac | agaagaagac | 900 |
| aaccaggacg | gcgccgtgtg | caaggagatc | cgtcacaact | ccacagggtg | cctgaagatg | 960 |
| aaggaccagt | gtgaaaagt | ccgggagatc | ttgtctgtgg | actgttcgtc | caacaacccc | 1020 |
| gctcagggtc | agctgcgaca | ggaacttaat | aattccctcc | agattgcaga | gaagttcacc | 1080 |
| aagcttgtac | gacgagctgc | tgtagtccta | ccaggagaag | atgttcaaca | cgctccctcc | 1140 |
| gctgaagcag | ctggacgagc | agtttagctg | ggtgtcccag | ctggcggaatc | tcactcagac | 1200 |
| tgaggaccgg | ttctatctcc | aggtcacgac | ggtgagttcc | cagacttctg | actccagtgc | 1260 |
| tcctcttggc | gtcactaagg | tggttgtaga | gctctttgat | tccgacccca | tcaccgtgat | 1320 |
| cctcccagaa | gacctctcca | ggaacaatcc | taaatttatg | gagaccgtgg | cagagaaagc | 1380 |
| ccttcaggaa | taccgccaga | agagccggga | ggagttagat | gggaacactg | cctctccaca | 1440 |
| tgccagggtg | ctgagttctg | tcgccccgcg | gatgagcgat | aggccccctag | agagagctct | 1500 |
| gcatgtcacc | gagtgaccgg | gccttccttg | aggccctcct | gtcccccac | cccgcctgtc | 1560 |
| ctccctctgg | actctgcatt | gtaacaccgt | gttactgat | catgggaaga | actcctgtgt | 1620 |
| gccactaact | caataaaacc | accagtaatc | tgaaaaaaa | aaaaaaaaa | | 1669 |

<210> 433

<211> 1491

<212> DNA

<213> Homo sapiens

<400> 433

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| tgcccgccgc | gcgggccggg | ccctacttcc | gtcccgccgc | gggctgccgc | ctgccctgc | 120 |
| ggggggacca | gctgtcgggg | ctggggcgca | ggacctacc | ccggccgcac | gagtacctgt | 180 |
| ccccatctga | cctgcccaag | agctgggact | ggcgcaacgt | gaacggggtc | aactatgcca | 240 |
| gtgccaccag | gaaccagcat | atccccag | actgtggctc | ctgctggggc | cacggcagca | 300 |
| ccagtgccat | ggcgggaccg | gatcaacatc | aagagaaagg | gggctggggc | ctccaccctg | 360 |
| ctgtccgtgc | agcacgtcct | cgactgcgcc | agcgccggct | cctgtgaggg | gggcaacgac | 420 |
| ctgcccgtgt | ggaggtacgc | ccatgagcac | gactccccg | acgagacctg | caacaactac | 480 |
| caggctaagg | accaggaatg | caacaagttc | aaccagtgtg | gaacatgcac | ggaattcaag | 540 |

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 1491

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<210> 434

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (249)..(249)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (548)..(548)

<223> n equals a,t,g, or c

<400> 434

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cgggcgcaag gtgagaagtg tggagtgagg gtcgcagttg aggcgtccag cgttcgggggt 180
ccgggtcgcg cttgaggaga gcaaagggct aataaggaaa gacagctgcc gagggcgcg 240
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<210> 435

<211> 2087

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (56)..(56)

<223> n equals a,t,g, or c

<400> 435

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<211> 1409

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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| cttcgcgtta | tcacccctggt | cgcaggggca | tttttctggc | tggtctccct | gctcctggcc | 660 |
| tctgtggtct | ggttcatctt | ggtccatgtg | accgaccggt | cagatgcccg | gctccagtac | 720 |
| ggcctcctga | tttttgggtg | tgctgtctct | gtccttctac | aggaggtgtt | ccgctttgcc | 780 |
| tactacaagc | tgcttaagaa | ggcagatgag | gggttagcat | cgctgagtga | ggacggaaga | 840 |
| tcacccatct | ccatccgcca | gatggcctat | gtttctggtc | tctccttcgg | tatcatcagt | 900 |
| gggtgtctct | ctgttatcaa | tattttggct | gatgcacttg | ggccaggtgt | ggttgggac | 960 |
| catggagact | caccctatta | cttcctgact | tcagcctttc | tgacagcagc | cattatcctg | 1020 |
| ctccatacct | tttggggagt | tgtgttcttt | gatgcctgtg | agaggagacg | gtactgggct | 1080 |
| ttgggcctgg | tggttgggag | tcacctactg | acatcgggac | tgacattcct | gaacccctgg | 1140 |
| tatgaggcca | gcctgtgccc | atctatgcag | tcactgktn | catggggctc | tgggccttca | 1200 |
| tcacagctgg | agggccctyc | gaagtattca | gcgcagcytc | ttgkgaagga | ctgactacct | 1260 |
| ggactgatcg | ctgacagatc | acctgctgtc | mctgccatga | ctgagccagc | ccagccggctc | 1320 |
| cattgccaac | tctctcttct | gcggctaccc | atactcaggt | ttgttgccct | tggacgtagc | 1380 |
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<210> 437

<211> 2571

<212> DNA

<213> Homo sapiens

<400> 437

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| atcatgggtga | ttctgggtgct | gggctacgga | atatcttact | gctacatgga | gtactcccgga | 120 |
| ctgcgtgggtg | aggccgggctc | tgatgtctct | ttgggtggacc | tcggccttca | gacggatttc | 180 |
| cgggtgtacc | tgactttacg | gcagacctgg | ttggccttta | tgatcattct | gagtatcctt | 240 |
| gaagtcatca | tcactttgct | gctcatcttt | ctccggaaga | gaatttctcat | cgcgattgca | 300 |
| ctcatcaaac | aagccagcag | ggctgtggga | tacgtcatgt | gctccttgct | ctacccactg | 360 |
| gtcaccttct | tctgtctgtg | cctctgcac | gcctactggg | ccagcactgc | tgtcttctctg | 420 |
| tccacttcca | acgaagcggc | ctataagac | tttgatgaca | gcccctgccc | atttactgcg | 480 |
| aaaacctgca | accagagac | cttcccctcc | tccaatgagt | cccgcgaatg | ccccaatgcc | 540 |
| cgttgccagt | tcgccttcta | cgggtgggtg | tcgggctacc | accggggcct | gctgggcttg | 600 |
| cagatcttca | atgccttcat | gttcttctgg | ttggccaact | tcgtgctggc | gctggggccag | 660 |
| gtcacgctgg | ccggggcctt | tgccctctac | tactgggccc | tgcgcaagcc | ggacgacctg | 720 |
| ccggccttcc | cgtcttcttc | tgcccttggc | cgggcgctca | ggtaccacac | aggctccctg | 780 |
| gcctttggcg | gcctcatcct | ggccattgtg | cagatcatcc | gtgtgatact | caggtacctg | 840 |
| gatcagcgcc | tgaaagctgc | agagaacaag | cttgccaagt | gcctcatgac | ctgtctcaaa | 900 |
| tgctgcttct | ggtgcctgga | gaagttcatc | aaattcctta | atagggaatg | ctacatcatg | 960 |
| attgccatct | acggcaccaa | tttctgcacc | tcggccagga | atgccttctt | cctgctcatg | 1020 |
| agaaacatca | tcagagtggc | tgtcctggat | aaagtacttg | acttctctct | cctgttgggc | 1080 |
| aaacttctga | tcgttggtag | tgtggggatc | ctggcttctt | tcttcttcac | ccaccgtatc | 1140 |
| aggatcgtgc | aggatacagc | accaccctc | aattattact | gggttctctat | actgacgggtg | 1200 |
| atcgttggct | cctacttgat | tgacacgggt | ttcttcagcg | tctatggcat | gtgtgtggac | 1260 |
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| tacttcatgt | cttccaccct | caagaaactc | ttgaacaaga | ccaacaagaa | ggcagcgag | 1380 |
| tcctgaaggc | ccggtgctcc | ccacctctca | aggagtctca | tgccgcaggg | tgctcagtag | 1440 |
| ctgggtctgt | tccccagcc | ccttgggctc | acctgaagtc | ctatcactgc | cgctctgccc | 1500 |
| ctccccatga | gccagatccc | accagtttct | ggacgtggag | agtctggggc | atctccttct | 1560 |
| tatgccaagg | ggcgcttggg | gttttcatgg | ctgcccctcc | agactgagag | aaacaagtaa | 1620 |
| aaaccatttg | gggcctcttg | atgtctggga | tggcacgtgg | cccgaacctc | acaagctccc | 1680 |
| tcattgctcc | tgtccccgc | ttacacgaca | acggggccaga | ccacgggaag | gacggtgttt | 1740 |
| gtgtctgagg | gagctgctgg | ccacagtga | caccacgtt | tattcctgcc | tgctccggcc | 1800 |
| aggactgaac | cccttctcca | cacctgaaca | gttggtctca | gggcccaccag | aagcatttct | 1860 |
| ttattattat | tattttttaa | cctggacatg | cattaaaggg | tctattagct | ttcttctcgt | 1920 |
| ctgtctcaac | agctgagatg | ggggccgcaa | ggagtgcctt | ccttttgctc | cctcctagct | 1980 |
| gggagtgcag | ggtgggagtg | tgtgtgcccc | ggtgggggtg | tctcctggct | gggaaggagg | 2040 |
| gaaaggagg | gagagttttg | cgggggttgg | cagtggagag | caggctggag | aggagatggc | 2100 |
| taatagctgt | ttaatggaaa | cctgctgggc | tggagggagt | taggctgaat | ttcccgaact | 2160 |
| cctctgccag | ttattgacac | agctctcttt | gtaagagagg | aaagaaacta | aaccacacca | 2220 |
| agggatgatt | tcagggggag | aggtggaggg | cagatgtcct | gggcaaaccg | ggccctctctg | 2280 |
| cccacacacc | tcacttgatc | cttttgccaa | acttgtcaaa | ctcaggggaa | ctggcttccc | 2340 |
| agttgccctt | ttgccatatt | ccaagtcccc | ctcagacttc | atgtctctgc | tcattcagcac | 2400 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tgtcccagga | tcctggagag | ggagaacccc | tggccccagg | ggaaagaggg | gggggtctcc | 2460 |
| cgtttctgt | gcctgcacca | gccctgcccc | cattgcgtct | gcacaccct | gcgtgtaact | 2520 |
| gcattccaac | cactaataaa | gtgcctattg | tacaggaaaa | aaaaaaaaa | a | 2571 |

<210> 438

<211> 3080

<212> DNA

<213> Homo sapiens

<400> 438

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| caccaagaag | ccaaatgaca | acaggaaagg | tgatgggaag | atgaaaacaa | aggaaggtgg | 120 |
| acttttgggt | atatgttata | gccatgtatg | tatgtcttct | tttttctatt | ttctcttggt | 180 |
| cttcatctta | actgtcctca | atctgcccc | caccaaccct | gtgtcactcc | cagcacacat | 240 |
| aagacagagc | agaagacccc | atccttgagc | tggctcctcc | tgggtatggg | ctgaggtaac | 300 |
| atcccacaca | ccaggacgat | cttccctgcc | tcccatcggt | cacattaaga | cattttcaaa | 360 |
| gtgtaattat | ataaatggac | ctacctctaa | atattgactt | tacagttatt | ttatgaggca | 420 |
| ctcaatttat | agctaagggt | tttcagtcta | gtgtcatgaa | agagataaaa | gggtgttcac | 480 |
| agattattta | agacataagg | ctggtcaggg | atgagtcaga | gagtcattct | ccatgaagtc | 540 |
| acccctggcc | aactttgaaa | ggaagaatgt | ttaactgcac | tttgggcgta | aatgacaagc | 600 |
| atctgggacc | ctccccctcc | ctgatccctg | ccaccaccac | tcaatcggcc | agataatcaa | 660 |
| ttgtttctga | ggtcactttc | acataatctt | ggcaacttta | gttggtgaaa | gcatgcatgc | 720 |
| aggggcaaca | tgggtgtacc | tggtgctttt | tttttcccc | ttctaagctc | cttaccagag | 780 |
| agcagatcta | aggatactgt | gtaacttgaa | ataaccggca | ttttcagact | ttgccatttc | 840 |
| atagtccata | gggcaagcca | tctttcaggg | atatccacat | gggtgggcagg | aaatcttgac | 900 |
| attggcttct | cagaaaaatat | ctgcctagtc | acacctggga | attcactaaa | cacccaaatg | 960 |
| cagtgtttga | tgtggcctta | cctgctcctt | gtatcttatt | ggattgaatg | agaacagatg | 1020 |
| caaaacaagt | atgtacagaa | atgccaggaa | aactactgtc | ttccaatggg | gttcaacagt | 1080 |
| tcaaagccct | ccattgatgg | agccacttag | gaggtttcag | tgtcttaatt | cttttagatt | 1140 |
| ttgacagttt | tagaaaaacta | aaaaaaaaaa | aaacaagttt | ttatcgtgaa | atttgattac | 1200 |
| aaaagatttt | gagagaaatg | ataagaacca | gatctgaaga | atttgaaatt | tgaaaattca | 1260 |
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| acttcttttt | ggtggatttc | aaaagttaac | cttcagactt | atttagaggg | ttttcataaa | 1380 |
| gcaagttttt | ttctgttgct | gtcgaatttc | tttcttttct | tttctatctt | ttcttttctc | 1440 |
| ttccttttgc | tggtccctgt | gtgtgaagca | ggaggggcag | ctgaaatgct | ttgcatactc | 1500 |
| accctgggtca | ttttccagtt | aggacaagct | caaagggaga | gcacagctca | gaagggtggca | 1560 |
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| tgcttcaaag | ccttctgggc | tgtagaccac | acagagctca | ccctcaagca | gccacgctgg | 1860 |
| accacattgc | tttcaactgat | tttgactcat | ctccccata | gtgcagtgtg | tcctaaagggtg | 1920 |
| gctgtgggtg | acacagccgt | gtgttcgtgc | tgtacggcac | tgtggtcatg | gggtgtgacgc | 1980 |
| tggagctcct | gattagtttg | agttcaaatc | ccagcctcgc | tgggtgggcat | gcttagaaca | 2040 |
| gaccctagca | ggcgccaagc | cccagtaagt | ggtggagtca | ttggtaaagg | ataatgctga | 2100 |
| atgcaggaca | tttatatgga | tgaaagagta | tggaagagg | aatttcagtg | atatgaattc | 2160 |
| caaagcgtgt | tagtatattt | tataagaaac | aaaaaggtat | tcaccagcac | caccaaactc | 2220 |
| catcatcagt | cacaggcaac | caagaattga | tcaactctcc | agaactttgg | gaggccgagg | 2280 |
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| aggcaggaga | atggcgtgaa | cccgaggaggc | ggagcttgca | gtgagccgag | atcacgccac | 2460 |
| tggactcctg | cctgagtgac | agagggagac | gccgtctcaa | aaaaaaaaaa | aaaaaaaaaa | 2520 |
| gaattgagca | ctcaagtccg | tcttctaacc | tgcctgaacc | tcttgagatg | agaagaacaa | 2580 |
| aacaaacctg | cgtgtcctg | atgtagggtta | ccctaattga | gcttctctgg | ttctctctctc | 2640 |
| cctgtcacat | ctcagggaact | ccaccttatt | ttaaagctgt | cttactagca | ctgttggtgact | 2700 |
| tttctgtttc | agatgctcaa | acaagagatg | gagcaggggc | aggggtttggg | gttaaatggg | 2760 |
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| tatatgtagg | tcagagccag | ggccgctgcg | tgcacagagg | tctgtcatgg | agcggccagt | 2880 |
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| agtggccacc | ctggttaagg | taaggtcaga | cttgggttag | tctaagctgt | cagagggtgt | 3000 |
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3080

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<211> 1837

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<222> (1312)..(1312)

<223> n equals a,t,g, or c

<400> 439

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| ccagcggggc | tgagcgcggc | caggggtctga | acccagattt | cccagactag | ctaccactcc | 120 |
| gcttgccac | gccccgggag | ctcgcggcgc | ctggcgggtca | gcgaccagac | gtccggggcc | 180 |
| gctgcgtcc | tggcccgcga | ggcgtgacac | tgtctcggct | acagaccag | agagaaaagc | 240 |
| ttcattctgg | aggggaagga | gttttgagt | ccaaggatga | aattccaccc | atcactcgg | 300 |
| ctctgagctg | caggacacag | gcaggacaac | gggagcacac | tgccaggatg | ggagctgctg | 360 |
| ggaggcagga | cttcctcttc | aaggccatgc | tgaccatcag | ctggctcact | ctgacctgct | 420 |
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| cctggaaccc | tggccatgac | caagaccacc | atgtgcatat | cggccagggc | aagacactgc | 540 |
| tgctcacctc | ttctgccacg | gtctattcca | tccacatctc | agagggaggc | aagctggtca | 600 |
| ttaaagacca | cgacgagccg | attgttttgc | gaacccggca | catcctgatt | gacaacggag | 660 |
| gararctgca | tgctggggag | tgccctctgc | cctttccagg | gcaatttcac | catcattttg | 720 |
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| gttggtaaag | gaggcgctct | tgarttgc | ggamagaaaa | aactctcctg | gacatttctg | 840 |
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| ggccaccgtg | gagttattgt | tcatgtcatc | gaccccaa | caggcacagt | catccattct | 960 |
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| gattactcca | tgtaccaggc | agaagagttc | caggtgcttc | cctgcagatc | ctgcgcccc | 1740 |
| aaccaggtca | aagtgccagg | gaaaccaatg | tacctgcaca | tcgggggtcg | acgcggccgc | 1800 |
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<211> 1188

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (892)..(892)

<223> n equals a,t,g, or c

<400> 440

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| ccccccagaac | ccggacaact | gttgccggcg | cggcaggggc | atcgccgggg | cgtgggcagc | 120 |
| ccccgcaccc | cagcaggcgg | ctccccggg | cgccggctcc | cggctacgaa | gcgaggaacg | 180 |
| agcgggcggc | gggcacgagg | cagctctgga | cggatcaatg | caagccagac | gatgaccagt | 240 |
| tgtggccagc | agtccttgaa | cgtgctcgcc | gtcctcttct | cattgctgtt | ttctgcagtc | 300 |
| ttgtctgcac | atttccgggt | ctgtgaacca | tacacagacc | acaaaggccg | ctaccacttt | 360 |
| ggcttccact | gccccggct | ctcgacaac | aagaccttca | tcctctgttg | tcaccataac | 420 |
| aacacggtct | tcaaatactg | ctgcaacgag | acggagttcc | aggcgggtgat | gcaggcgaaac | 480 |
| ctcacggcca | gytccgaggg | ttacatgcac | aacaattaca | ccgccctgtt | gggagtgtgg | 540 |
| atctatggat | tttctgtgtt | gatgctgctg | gttctggacc | twwwgtatwa | mtcggcaatg | 600 |
| aactacgaca | cttgcaagg | ctacctggca | cggtggggca | tccaaggacg | atggatgaaa | 660 |
| caggaccccc | ggcggtgggg | gaaccccgct | cgggccctc | ggccgggtca | gcgggccccca | 720 |
| cagccgcagc | ctccccagg | cccgctgcca | caagccccac | aggccgtgca | cacattgcgg | 780 |
| ggagatgctc | acagcccacc | gctgatgacy | ttccagagtt | cgtctgcctg | aaaacgcttt | 840 |
| tgtgtgcct | caggatgggg | gagatgagat | ctgaagcacc | cggtgcagcc | tncgagaaga | 900 |
| acaacttcta | cagagatgcc | agggacagcc | gaggtagcgg | cgrtggcaca | ggaggaaatg | 960 |
| ctgcctgtgc | ccaaagcccc | cttccacgga | cttctaagat | taggagcaaa | ctcaggggta | 1020 |
| ggggctgggg | gtgcagggga | ggggattctg | agccacctgt | ccgcaagcaa | tagtcctatt | 1080 |
| ttggctgggt | ggcttctgag | aggtgactca | ttgtggactc | aggatgacca | agacaaagggt | 1140 |
| cgacgcggcc | gcgaattccc | gggtcgacga | gtcactagt | cgccggcc | | 1188 |

<210> 441

<211> 3369

<212> DNA

<213> Homo sapiens

<400> 441

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| cactctcggt | cccgtgacc | ccgcgccgag | ccccggcggc | tctggccgcg | gccgcaactca | 120 |
| gcgccacgcg | tcgaaagcgc | aggccccgag | gaccgcgcgc | actgacagta | tgagccgcac | 180 |
| agcctacacg | gtgggagccc | tgttctctct | cttggggacc | ctgctgccgg | ctgtgtaagg | 240 |
| gaaaaagaaa | gggtcccaag | gtgccatccc | cccgccagac | aaggcccagc | acaatgactc | 300 |
| agagcagact | cagtcgcccc | agcagcctgg | ctccaggaa | cgggggcggg | gccaaagggcg | 360 |
| gggcaactgc | atgcccgggg | aggaggtgct | ggagtccagc | caagaggccc | tgcatgtgac | 420 |
| ggagcgcaaa | tacctgaagc | gagactggtg | caaaaccag | ccgcttaagc | agaccatcca | 480 |
| cgaggaaggc | tgcaacagtc | gcaccatcat | caaccgcttc | tgttacggcc | agtgcaactc | 540 |
| tttctacatc | cccaggcaca | tccggaagga | ggaagggtcc | tttcagtcct | gtccttctg | 600 |
| caagcccaag | aaattcacta | ccatgatggt | cacactcaac | tgccctgaac | tacagccacc | 660 |
| taccaagaag | aagagagtca | cacgtgtgaa | gcagtgtcgt | tgcatatcca | tcgatttgga | 720 |
| ttaagccaaa | tccaggtgca | cccagcatgt | cctaggaatg | cagmcccagg | aagtcccaga | 780 |
| cctaaaacaa | ccagattctt | acttggttta | aacctagagg | ccagaagaac | ccccagctgc | 840 |
| ctcctggcag | gagcctgctt | gtgcgtagtt | cgtgtgcatg | agtgtggatg | ggtgctctgtg | 900 |
| ggtgttttta | gacaccagag | aaaacacagt | ctctgctaga | gagcactycc | tattttgtaa | 960 |
| acmtatctgc | tttaattggg | atgtaccaga | aaccacctc | acccggctc | acatctaaag | 1020 |
| ggcgggggcc | gtggtctggt | tctgactttg | tggtttttgtg | ccctcctggg | gaccagaatc | 1080 |
| tcctttcgga | atgaatgttc | atggaagagg | ctcctctgag | ggcaagagac | ctgttttagt | 1140 |
| gctgcattcg | acatggaaaa | gtccttttaa | cctgtgcttg | catcctcctt | tcctcctcct | 1200 |
| cctcacaaatc | catctcttct | taagttgaya | gtgactatgt | cagtctaate | tcttggttgc | 1260 |
| carggttcct | aaattaatct | acttaaccat | gatgcaaatg | tttttcattt | tgtgaagacc | 1320 |
| ctccagactc | tgggagaggc | tgggtggggc | aaggacaagc | aggatagtgg | agtgagaaag | 1380 |
| ggagggtgga | gggtgaggcc | aaatcaggtc | cagcaaaagt | cagtagggac | attgcagaag | 1440 |

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<211> 558

<212> DNA

<213> Homo sapiens

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<222> (27)..(27)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (39)..(39)

<223> n equals a,t,g, or c

<400> 442

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558

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 <211> 2499
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 <213> Homo sapiens

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 <211> 1623
 <212> DNA
 <213> Homo sapiens

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 ttagaaaagg acggctcctt atttcactcc actcacaac ataacaatgg tcagccatt 360

| | | | | | | |
|--------------|------------|-------------|-------------|------------|------------|------|
| tggtttaccc | tgggcatcct | ggaggctctc | aaaggttggg | accagggtct | gaaaggaatg | 420 |
| tgtgtaggag | agaagagaaa | gctcatcatt | cctcctgctc | tgggctatgg | aaaagaagga | 480 |
| aaaggtaaaa | ttcccccaga | aagtacactg | atatattaata | ttgatctcct | ggagattcga | 540 |
| aatggaccaa | gatcccatga | atcattccaa | gaaatggatc | ttaatgatga | ctggaaactc | 600 |
| tctaaagatg | aggttaaagc | atatttaaaag | aaggagtgtg | aaaaacatgg | tgcggtggtg | 660 |
| aatgaaagtc | atcatgatgc | tttgggtggag | gatatttttg | ataaagaaga | tgaagacaaa | 720 |
| gatgggttta | tatctgccag | agaattttaca | tataaacacg | atgagttata | gagatacatc | 780 |
| taccctttta | atatagcact | catctttcaa | gagagggcag | tcctctttta | agaacatttt | 840 |
| atttttatatac | aatgttcttt | cttgcctttgt | tttttatttt | tatatatttt | ttctgactcc | 900 |
| tatttaaaga | acccttagg | tttctaagta | cccatttctt | tctgataagt | tattgggaag | 960 |
| aaaaagctaa | ttggtctttg | aatagaagac | ttctggacaa | tttttcactt | tcacagatat | 1020 |
| gaagctttgt | tttactttct | cacttataaa | tttaaaatgt | tgcaactggg | aatataccac | 1080 |
| gacatgagac | caggttatag | cacaaattag | caccctatat | ttctgcttcc | ctctattttc | 1140 |
| tccaagttag | aggtcaacat | ttgaaaagcc | ttttgcaata | gcccaaggct | tgctattttc | 1200 |
| atgttataat | gaaatagttt | atgtgtaact | ggctctgagt | ctctgcttga | ggaccagagg | 1260 |
| aaaatgggtg | ttggacctga | cttggttaatg | gctactgctt | tactaaggag | atgtgcaatg | 1320 |
| ctgaagttag | aaacaagggt | aatagccagg | catggtggct | catgcctgta | atcccagcac | 1380 |
| tttggggaggc | tgaggcgggc | ggatcacctg | aggttgggag | ttcgagacca | gcctgaccac | 1440 |
| cacggagaaa | ccctatctct | actaaaaata | caaaagtagc | cgggcgtggt | gatgcgtgcc | 1500 |
| tgtaatccca | gctaccagag | aaggctgagg | cggcagaatc | acttgaacct | ggaggcggag | 1560 |
| gttgcggttaa | gccgagatca | cctccagcct | ggacactctg | tctcgaaaaa | aaaaaaaaaa | 1620 |
| aaa | | | | | | 1623 |

<210> 445

<211> 2214

<212> DNA

<213> Homo sapiens

<400> 445

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| gtttttaact | gaatctaaga | aaagtccaaa | atagatttga | gactgtaaaa | acagaaactg | 120 |
| cagcaagggg | gattcagtcg | caatgcatca | acaaaaaaga | caaccagagt | tagtggaagg | 180 |
| aaatcttctt | gttttcgtgt | tccccacgga | gctcatattt | tatgcagatg | atcagtcac | 240 |
| acataagcaa | gtgttgacac | tgtacaatcc | ctatgagttt | gccttaaaagt | tcaaagtttt | 300 |
| gtgtactact | ccaaataagt | atgttgtcgt | tgatgctgca | ggtgcagtaa | agcctcagtg | 360 |
| ttgtgtggat | attgtgattc | gtcatcgaga | tgttcgatcc | tgctactatg | gtgtaataga | 420 |
| caaattccgt | ctccaagt | ccgagcaaa | ccaaaggga | gctttgggga | agaaaagagg | 480 |
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| taaaggraca | tttaackgaa | aktttat | ttgagcagtc | gtttcaacca | ggtcttatca | 600 |
| caatggccat | acttagaaca | tgagcaagga | tttcaattga | cttctgaagt | aaatctgtct | 660 |
| tgaataatag | aatgtggact | gccttttatc | tctatttcac | tccattaaca | tgcaacaac | 720 |
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| tgaaggactg | cagaacatta | ttttacagac | agcaaggatg | cttctgagtg | acacctagga | 840 |
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| kgttattttc | tcaccttttt | ttctaattca | ctttgattgc | taggggtcat | gtatgcttcg | 960 |
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| tgccatgggtg | tttctaaaa | taagtgtttt | accattaatg | tgtagagggc | aaacaaagca | 1140 |
| taaagtacta | agggatcatg | cttatcctag | ggtctcacag | aagagaggac | atatttaatt | 1200 |
| aatcttgtga | attacagaac | aggttgttgt | ccagacacca | agaatcatag | gggttttttt | 1260 |
| ttaaaaaacc | taatagaagt | agggtgacct | ctctctttgg | tctaagagtt | ctaaaggaag | 1320 |
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| taataggaag | gaaaaatcac | tttatctttt | cttccaagcc | cctccctgcc | tgacttacc | 1440 |
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| taagccaagt | gtaagaaact | cttgatagct | atgtctat | tatatcagtc | actgagactt | 1560 |
| ttttttaagt | ttttatttat | tattaagaca | actttgccaa | aaaagtcccc | taagcacaac | 1620 |
| tattttacatt | tctttatagc | ctcttctgat | ctctaacaca | tatgcagttt | taactgttat | 1680 |
| tttcatagta | actgatcttt | tgtctaagga | tttttacctg | aaagcacaat | gtattgagtc | 1740 |
| tcttgaâaat | catctttcag | atctttttac | agaatgaact | tatgcactgc | tactgtagta | 1800 |
| ttctcaagga | atatatgtaa | acacaaatgt | atgcctgagg | ttggtttttg | cagaaaacag | 1860 |
| tctctgcttc | taaaaacttc | tatgtctagt | cttccatagg | aatcctcac | tgtttaacca | 1920 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tgtgaggagc | ctaagtcatt | aaacggatca | tgtctgtaca | ttgtgtaatg | aatgaaaagc | 1980 |
| acataaatgt | aatctacttt | gaacttttga | aaaatgatgt | gtggaggcta | ttcttggttc | 2040 |
| tccatctcaa | gtcctgtgtg | tgcacgtgtg | tgcaagtgca | catgtgtgtg | tgtaataaca | 2100 |
| cattgtaaag | aacagaaatt | acttttaaaa | ataaacagaa | atggagacct | gaaaaaaaaa | 2160 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | tcgagggggg | gtcccgtacc | caat | 2214 |

<210> 446

<211> 590

<212> DNA

<213> Homo sapiens

<400> 446

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| gttcccaccc | tgttctgccc | caggattgtg | ctggaagtgc | tgggtgtgct | ccgaagcatc | 120 |
| agcgaacagt | gccgccgtgt | gtccagccag | gtcaccgttg | cctcagagct | gagacacagg | 180 |
| cagtgggtgg | aaaggacgct | gcggtctcgc | cagcggcaga | actacctgcg | tatgtggagt | 240 |
| agtatcagac | tactgtcccc | tgtgtctcagc | ctgatactgt | tactcattgc | gctggagtgtg | 300 |
| gtcaacattc | atgctgtttg | tgggaagaat | gcgcagtgtg | atcagcagta | cctaaagtgtt | 360 |
| gtaaagtcca | tcttgacgta | cacggagaac | ctggtggcct | acaccagtta | cgaaaagaac | 420 |
| aagtggaaag | aaactatcaa | tcttacrcat | acagctttgt | tgaaaatgtg | gacttttagt | 480 |
| gagaagaaac | aaatgttaat | acatttagcc | aagaaatcca | caagtaaagt | actcttatga | 540 |
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<210> 447

<211> 2527

<212> DNA

<213> Homo sapiens

<400> 447

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| gatccccggg | agcctgtgca | agaaagtcaa | gctgagcaat | aacgcgcaga | actggggaat | 120 |
| gcagagagca | accaatgtca | cctaccaagc | ccatcatgtc | agcaggaaca | agagaggtca | 180 |
| gggtggtggg | accagagggtg | gctttcgtgg | ttgcacagtt | tggctaacag | gcttgtctgg | 240 |
| agcgggaaag | actactgtga | gcatggcctt | ggaggagtac | ctgggttgtc | atggtattcc | 300 |
| atgctacact | ctggatgggtg | acaatatctg | tcaaggcttc | aataaaaaatc | ttggctttag | 360 |
| tcctgaagac | agagaagaga | atgttcgacg | catcgcagaa | gttgctaaac | tgtttgacaga | 420 |
| tgctggctta | gtgtgcatca | caagtttcat | atcaccttac | actcaggatc | gcaacaatgc | 480 |
| aaggcaaat | catgaagggtg | caagttttacc | gttttttgaa | gtatttggtg | atgctcctct | 540 |
| gcatgtttgt | gaacagaggg | atgtcaaagg | actctacaaa | aaagcccggg | caggagaaat | 600 |
| taaaggtttc | actgggatcg | atcttgaata | tgaaaagcca | gaggccccctg | agttggtgct | 660 |
| gaaaacagac | tcctgtgatg | taaatgactg | tgccagcaaa | gttggtggaac | ttctacagga | 720 |
| acgggatatt | gtacctgtgg | atgcatctta | tgaagtaaaa | gaactatatg | tgccagaaaa | 780 |
| taaacttcat | ttggcaaaaa | cagatgcgga | aacattacca | gactgaaaa | ttaataaagt | 840 |
| ggatatgcag | tgggtgcagg | ttttggcaga | agggtgggca | accccatgtg | atggctttat | 900 |
| gagagagagg | gagtacttgc | agtgccttca | ttttgattgt | cttctggatg | gaggtgtcat | 960 |
| taacttgta | gtacctatag | ttctgactgc | gactcatgaa | gataaagaga | ggctggacgg | 1020 |
| ctgtacagca | tttgctctga | tgtatgaggg | ccgccgtgtg | gccattcttc | gcaatccaga | 1080 |
| gtttttttgag | cacaggaaag | aggagcgctg | tgccagacag | tggggaacga | catgcaagaa | 1140 |
| ccacccttat | attaagatgg | tgatggaaca | aggagattgg | ctgattggag | gagatcttca | 1200 |
| agtcttggtg | cgagtttatt | ggaatgatgg | tcttgatcag | tatcgtctta | ctcctactga | 1260 |
| gctaaagcag | aaattttaaag | atatgaatgc | tgatgctgtc | tttgcatctc | aactacgcaa | 1320 |
| cccagtgcac | aatggacatg | ccctgttaat | gcaggatacc | cataagcaac | ttctagagag | 1380 |
| gggctaccgg | cgccctgtcc | tcctcctcca | ccctctgggt | ggctggacaa | aggatgacga | 1440 |
| tggttcctttg | atgtggcgta | tgaagcagca | tgctgcagtg | ttggagggaag | gagttctgaa | 1500 |
| tcctgagacg | acagtgggtg | ccatcttccc | atctcccatg | atgtatgctg | gaccaactga | 1560 |
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| tcgagcttac | aacaagaaaa | agaagcgtat | gcactactat | gactctgaac | accatgaaga | 1800 |
| ctttgaattt | atctcaggaa | cacgaatgcg | caaacttgct | cgagaaggcc | agaaaccacc | 1860 |
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| | | | | | | |
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| gaccacatag | tctctgttg | catttctttg | tggtgtctgt | ctggacatgc | ttcctaaaaa | 2040 |
| cagaccattt | tccttaactt | gcacagttt | tggtctgcct | tatgagttct | gttttgaaca | 2100 |
| agtgtaacac | actgatgggt | ttaatgtatc | ttttccactt | attatagtta | tattcctaca | 2160 |
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| ctttccagtc | agctattggg | ctttccagct | gttataatct | aaagtattct | tatgatctgt | 2460 |
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| aaaaaaa | | | | | | 2527 |

<210> 448

<211> 4712

<212> DNA

<213> Homo sapiens

<400> 448

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| cgtccggcgg | ctccgagcca | ggggctattg | caaagccagg | gtgcgctacc | ggacggagag | 120 |
| gggagagccc | tgagcagagt | gagcaacatc | gcagccaagg | cggaggccga | agaggggagc | 180 |
| caggcaccac | tctccgcgtt | gcctcagccc | cggaggcgcc | ccagagcgct | tcttgtccca | 240 |
| gcagagccac | tctgcmgtcg | cctgcctctc | agtgtmtcca | actttgcgct | ggaagaaaaa | 300 |
| cttcccgcgc | gccggcagaa | ctgcagcgcc | tcctcttagt | gactccggga | gcttcggctg | 360 |
| tagcckgctm | tgcgcgcctt | tccaacgaat | aatagaatt | gttaatttta | acaatccaga | 420 |
| gcaggccaac | gaggctktgc | tctcccgacc | cgaactaaag | ctccctcgct | ccgtgcgctg | 480 |
| ctacgagcgg | tgtctcctgg | ggctccaatg | cagcgagctg | tgcccagagg | gttcggaagg | 540 |
| cgaagctgg | gcagcgacat | ggggaacgcg | gagcgggctc | cggggctctg | gagctttggg | 600 |
| cccgtaccca | cgctgctgct | gctcscgcg | gcgtactgts | ccgtgtcgga | cgcactcggy | 660 |
| cgcccctccg | aggaggacga | ggagctagt | gtgcccagag | tggagcgcg | cccgggacac | 720 |
| gggaccacgc | gcctccgcct | gcacgccttt | gaccagcagc | tggatctgga | gctgcggccc | 780 |
| gacagcagct | ttttggcgcc | cggcttcacg | ctccagaacg | tggggcgcaa | atccgggtcc | 840 |
| gagacgccc | ttccggaaac | cgacctggcg | cactgcttct | actccggcac | cgtgaatggc | 900 |
| gatccagct | cggctgccc | cctcagcctc | tgcgagggcg | tgcgcggcg | cttctacctg | 960 |
| ctgggggagg | cgtatttcat | ccagccgctg | cccgcgcgca | gcgagcgctt | ckccaccgcc | 1020 |
| gccccagggg | agaagccgcc | ggcaccacta | cagtccacc | tcctgcggcg | gaatcggcag | 1080 |
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| caggaccggg | cactgcaagg | cgtaggacag | cccacaggaa | ctggaagcat | aagaaagaag | 1260 |
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| ttgtwcaaac | accccagsat | tcgttaattca | gttagcctgg | tgggtgtgaa | gatcttggtc | 1440 |
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| tcaatgcttt | ccaacctgga | ccacagccag | ccttgggtctc | cttgcagtg | ctacatgatt | 1860 |
| acatcatttc | tggataatgg | tcatggggaa | tgtttgatgg | acaagcctca | gaatcccata | 1920 |
| cagctcccag | gcgatctccc | tggcacctcg | tacgatgcca | accggcagtg | ccagttttaca | 1980 |
| tttggggagg | actccaaaca | ctgccttgat | gcagccagca | catgtagcac | cttgtgtgtg | 2040 |
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| agaatggag | ggaagtactg | tgaaggcaaa | cgagtgcgct | acagatcctg | taaccttgag | 2340 |
| gactgtccag | acaataatgg | aaaaaccttt | agagaggaac | aatgtgaagc | acacaacgag | 2400 |
| ttttcaaaag | cttcccttgg | gagtgggcct | gcggtggaat | ggattcccaa | gtacgtggc | 2460 |
| gtctcaccac | aggacaggtg | caagctcatc | tgccaagcca | aaggcattgg | ctacttcttc | 2520 |
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<211> 1051

<212> DNA

<213> Homo sapiens

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<210> 451
 <211> 1945
 <212> DNA
 <213> Homo sapiens

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| atgccaaagg | aaatgctacc | tcgtggctac | acatattatg | aataaatgag | gaagggcctg | 1920 |
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<211> 599

<212> DNA

<213> Homo sapiens

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| cctcatcctg | atgggactg | aactcactca | agactccgct | gccccgact | ccctgctgag | 180 |
| aagttcaaag | ggcagcacga | gggggtcttt | ggctgctatt | gtcatctgga | gggggaagag | 240 |
| tgagagccgg | atagccaaga | cccaggcat | tttcagaggt | ggcgggacct | tagtccctacc | 300 |
| cccaacacac | acccctgagt | ggctcatcct | ccctttgggc | ataacgctgc | ccttgggggc | 360 |
| tccagaaaca | ggcgtgggg | attgtgccgc | tgagacctgg | aagggcagcc | agcgtgccgg | 420 |
| ccagctgtgt | gcattgctgg | cttaatatgc | agggcttggg | gggctgtggc | cacatgcccg | 480 |
| gcaggaggtg | agtgaggagc | cctgtggcgt | gctggtgtgg | ggatcgtggg | catttcaaac | 540 |
| gggcttgtcg | tacctgaac | aatgtatcaa | tagagaaaaa | aaaaaaaaaa | aaaactcga | 599 |

<210> 453

<211> 978

<212> DNA

<213> Homo sapiens

<400> 453

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| ggcacgagca | cttaattctca | ggtgaacgca | tcacttgcca | aactggttga | atgctatttg | 60 |
| tgttttgttg | cactgttttt | ttcgtttgtt | tgtttgttta | tttggttggc | tttttgga | 120 |
| gggaaatttg | gaaacgggac | atacacaaaa | gttacacacc | cacattccct | ttttatcatg | 180 |
| acatacaaga | agaaactagc | agagctaaga | atggagtga | gaaaggcagt | atggcaggca | 240 |
| ccagcaaaga | gttgagggct | gttgctctta | aaaattat | tttttattat | tattttgaaa | 300 |
| gtatggaagt | tttccattca | ctggggaaag | gagggaaaag | tgcatttatt | tttatacaga | 360 |
| gttacttaat | tacctccaaa | acacatatgt | tggaatcgc | ttttgctggt | gcaaagtata | 420 |
| ttaatgagca | ggaatacata | cattgagggt | atgaatagag | agctcaattt | gtacctttgc | 480 |
| tgtcttgctc | aagcttggtg | tggtcatgaa | actcgacttt | attccaaaag | taacttcaaa | 540 |
| atttaaaata | ctagaacgtt | tgctgcgata | aatcttttgg | atttttgtgt | ttttctaatg | 600 |
| agaatactgt | ttttcattac | ctaaagaaca | atttgctaaa | catgagaaat | cactcacttt | 660 |
| gattatgtat | agattacata | ggaagaacaa | tcacatcagt | aagttatagt | ttatattaaa | 720 |
| ggtaattttc | tggttgctca | taacaaatat | accagcattc | atgatagcat | ttcagcattt | 780 |
| tccaagggtac | caagtgtact | tattttgttg | ttgttgttgt | tggtgtattt | tagaagggaat | 840 |
| tcagctctga | tgttttttaa | gaaaaccagc | atctctgatg | ttgcaacata | cgtgtaaaaat | 900 |
| gggtgttaca | tctatcctgc | catttaaccc | cacagttaat | aaagtggctg | aaaataataa | 960 |
| aaaaaaaaaa | aaaaaaaaaa | | | | | 978 |

<210> 454

<211> 528

<212> DNA

<213> Homo sapiens

<400> 454

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ccacgcgtcc | gcacagactc | tectggcccc | ctgtcctttt | ggaaagaaga | cagggatgaa | 60 |
| atataatcaa | gcaattaacc | acccccatca | tcaccaagaa | caacagtatc | aacaagaaga | 120 |
| acagggacaa | caaaaccac | ggatgaaaca | ttcctttctc | agctcagatc | ttatctggtg | 180 |
| cgttctctct | ctgctctgtc | ttggtgtgtg | gtttagagaa | acatggacaa | cgctgttttg | 240 |
| aagaacaggg | cttcccagga | atcaacaatg | cccaagaagg | aagggtattg | agaaatagct | 300 |

```

taaccctttc atttaccaac gtggaaattg aagcccaggg aaggggaaggg accggtcgtg      360
gaaggagagag ccatcagcag aaagagaccc tgagatcttc gcctgggatt cccaggaagt      420
ccagcccagag ctgattcaca gaataaatgc atgcaaacct tgctatcaat aaattacaca      480
tgcacttacg taaaacacat aaaaaaaaaa aaaaaaaaaa aaaaaaagg      528

<210> 455
<211> 625
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)..(6)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (11)..(11)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (43)..(43)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (46)..(46)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (68)..(68)
<223> n equals a,t,g, or c

<400> 455
ttacnctcac ntaaggggaa caaaagctgg agctccaccg cgntgncggc cgctctagaa      60
ctagtggntc ccccgggctg caggaattcg gcacgagctc gtgccgaatt cggcacgagc      120
agcaacagca acacaggtgt ggagttgaca gacaggtaca ttgaaccaga gctgtgattt      180
agacaagcca ggaacctcat gtatgtccat aatgctgctg acattcactc ttcacttccc      240
cagcacatta ctgtcatatc tcccagagaa ttatgtcata ccttctctct tctcaaacct      300
gcaacactgg atctgctgtg ttcactctca gttggtaacc tgtttcgtat ttcagagaga      360
caatgtaagc actgagaaga gaactcttgc aactccaac acctcatctg ccactctca      420
ccatctgtct ccttgtaact ctggagatgg tctgccctcc tcctggggag gccaaactca      480
tccacttctg cactagattc cgtcctcttt tatcttccct acatcatgtg ttttccttct      540
atactcatca ttccttttag caataaatat ctttaaaaaa aaaactcgag ggggggcccc      600
gtaccaatcg cgccctatag tggag      625

<210> 456
<211> 597
<212> DNA
<213> Homo sapiens

<400> 456
tggcggccgc tctagaacta gtggatcccc cgggctgcag gaattcgga cagaccggc      60
cgccatcttg ggtcatcgat gagcctcgcc ctgtgcctgg tcccgttgt gaggaagga      120
cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaacacaga tcctgttgtg      180
gatatttatt tgaacgggtg tacagatttg aatgaagtc acaaaagtga cattaccaat      240
gagaggaaaa cagacgagaa aatcttgatg gcttcacaag acatgcaaca aacaaaatgg      300
aatactgtga tgacatgagg cagccaagct ggggaggaga taaccacggg gcagagggtc      360
aggattctgg ccctgtgcc taaactgtgc gttcataacc aaatcatttc atatttctaa      420

```

```

ccctcaaaac aaagctgttg taatatctga tctctacggt tccttctggg cccaacattc 480
tccatatatc cagccacact cttttttaat atttagttcc cagatctgta ctgtgacctt 540
tctacactgt agaataacat tactcatttt gttcaaaaaa aaaaaaaaaa aactcga 597

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<210> 457

<211> 665

<212> DNA

<213> Homo sapiens

<400> 457

```

ggcacgagaa actccagtta atgccattta ttttgcttct tgtttgctta acctccctgc 60
cttctagggg ttataatgag aagaaactaa cagacaatat tcagtgtgag atttttcaag 120
ttctttatga agaagccaca gcacccctaca aggaagaaat cgtgcatcag ctgcccagta 180
ataaaccaga agagctagaa aataatgtag atcagatctt gaaatggatt gagcagtggga 240
tcaaagatca taactcttga cttataaggc tagctactta ataactactc ttgttgatat 300
ctctgccgac atcatagaaa ttgttcaagt gtcagtaaca ctttattaaa atcatgttgc 360
agaaccagca ggtggatagt atataggttt atgcctgtgt ttcttttctc catgagaaaag 420
ctaaacatga aatataatga atatagtaat tattaaggga ttgagacaaa aactgtgatt 480
ttaatactta aattgctaaa gaataaataa atctgacaaa atgggtggat atcttttaag 540
tttattacag aaaaaaatgc agatgatctc ttaaaataaa actaaagata aagcaaaaaa 600
aaaaaaaaaa aaaactcgta gggggggcyc cggtacccaa tcgccctatg agtgagtcgt 660
attac 665

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<210> 458

<211> 723

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (722)..(722)

<223> n equals a,t,g, or c

<400> 458

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tattgtagtt agaaccatct gacacatagc ttttattcca ttggtttttt gttatgtctt 60
tctttacaag aatttgaagt ccatcaggcc gggagttttt tttgttgtgt ttgctgctat 120
ctcccagtcg ctaaaattgc ctggcataca gtaggcattt aataatcttt gaatcagtga 180
aaaccagatg gtggcttggc atttcacat aggaatgagc caggtggaaa tcatccagga 240
tataagtaga tcttgaagtg ataaggaagg gtcatcataa tcatgtgggg cccattttgc 300
cctttcttgt ttcttttctc taggctcagc aacagcctca ccaaggactc catgaatatc 360
aaagcccata tccacatgtt gctagagggt agagcagctc accccactac cagactctgt 420
gttttaggggt gtgacctgaa gaaggaagag agcgaaagaa gggaaggacc atctttccct 480
ctaaactgga gtcaaggag ggaggtcaga gcaagcctgg gggcgtaacc cagacccagt 540
ctttgttcaa tctcttctgt cctcttttcc aggggcttag agaactacaa ggccctgcaga 600
atttcccaga gaagcctcac cattgacttc ttccccccat cctcagacat taaagagcct 660
gaatgccttt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
ang 723

```

<210> 459

<211> 2466

<212> DNA

<213> Homo sapiens

<400> 459

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ggcacgagca ggggcttaga tgctgctgag ccatccctta cctgtctgtt tctgtttctc 60
cttctgtccc tcccagtcct cagcactgag tctcttgccc attggccttg tgagggaagg 120
agctgccagc cccacccaac agctcaggtt acagagagag tcaactttctt ccattactca 180
cagagtaaac atcaaggaag gccactgatt gattgacagt gtctgggtca gatgtctatc 240
cttaggccag tccctgtgaa caaggggatg ggtgtctgag tggaccagat ctgaagcaca 300
ggcccatgcc tggggccagg ggtgggaact atggacctct ctccccactg agaaccacag 360
ggagcaggtg aggtgaaatt cctctagggg aagaggggca aaattgacaa gatagcagat 420

```

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
| gtctaccata | ctgctgtggg | gcctgggtccc | tcccagaagg | aaaaacatag | taacaataga | 480 |
| gtgggtctca | ccctccacct | gggtctcaag | taggggtggtg | atgaggacaa | tggaaatgaa | 540 |
| ggaagggtta | gaaggcctgt | ggtaccgggt | ggtaaatagc | tcttcgtgct | ttctccatat | 600 |
| ggagtggag | tgcttggatg | tgattccctc | aaagtcaggt | ctaggagact | caggatgcct | 660 |
| aatctagagg | taagaacatt | gtgaggaaag | ccagtggaatt | cagtcctgtg | catgctgact | 720 |
| ttgaagtact | tttgggaagag | ccaagtggaa | ttatccacag | gacaggacca | aatcttacct | 780 |
| ggttcttccc | caggccgact | agtcacacac | aggaaataaa | aagagtggcc | ccgataccaa | 840 |
| gttggtactag | tccattctca | cactgctatg | gggaaataacc | tgagactggg | taatttataa | 900 |
| agggaaaaagg | tttaattgac | tcacagttct | agatggctgg | ggaggcttca | ggaaacttac | 960 |
| aatcatggca | gaaggcacca | cttcacaggg | tggcgggaga | gagaatgagt | gcccagcgaa | 1020 |
| gggagaagct | ccttataaaa | ccatctgttc | tccttataaa | gatctcttaa | taaaaccgtc | 1080 |
| agagaactat | ctcattcact | atcaggagaa | gagcatgggg | gaaccgcccc | catgattcag | 1140 |
| tttactccac | ctggtcccgc | ccttgacatg | tgggtgttat | tacaatttaa | ggtgagattt | 1200 |
| gggtggggac | acagagccaa | accatatac | aaggctttct | cctccttgct | gggattgtac | 1260 |
| ccatagcctc | tttctgagtc | ctctctcttt | tagcctcttt | atgcctgcag | tgcatcctta | 1320 |
| taccatttct | agagtcatct | ttataaaaact | tataactctc | gtatgactca | taaatcctgt | 1380 |
| tttttttttt | gcacagtata | ttaagtataa | atttgttaaa | gtctttaatg | gtctgcccc | 1440 |
| aagctacatt | tccattttgt | atgtctttca | gttcctttct | actttgtatt | tggctgttga | 1500 |
| gttaactgaa | tttttgccat | tccattaacc | catcccatgc | tttccctact | tctagatttc | 1560 |
| acttttcttg | taggctagaa | tgtcttgact | gggatctgac | tggagataat | gagaacaaaa | 1620 |
| actggttcaa | agagccagga | tgttgcataa | aagtcctaag | attgtatcta | agcaggtaaa | 1680 |
| ataaaaaattt | taggcaatta | cttaaatttg | aaatgctcac | atttattaat | aaggcatgta | 1740 |
| acatctacat | gagccatcat | ttgctttttt | aattccacat | tgattaggag | ccaaaccttc | 1800 |
| agggcaggta | tccggtagag | cgccctggag | agccctgga | taggcacagg | cgctgtcag | 1860 |
| ggggctcttc | acatgctgtg | tgctgctgct | gggagaagag | ggggccagag | actagggggc | 1920 |
| ttctaagaag | aggtggcatt | tctgcctcag | tggtgaagga | tgaataactt | tgacaggctg | 1980 |
| gaaaaagggtg | acatttcagg | tagagcgtgt | cacatggatg | taaataccaa | aggtcaagga | 2040 |
| catgggcttg | agagatgggt | agaaggatgg | aggtgactgt | ggcttgctt | ctatccgtat | 2100 |
| cactattaat | taccttctaa | tgcccttgcc | tctagggtgt | ggaacaagta | aagtaatgga | 2160 |
| caaatacttt | ttctaccaat | atttagtgac | caaatgcaga | gttatggaga | gggccaggga | 2220 |
| cctcatgaac | catactcttt | ctagtctagg | gacataactc | caatgccttt | cctgtcccag | 2280 |
| taagaggcca | tggatttcaa | gaagccagac | aatccattct | ttcagataat | gataaaaaag | 2340 |
| aaaccattta | ttttatttct | aagtatagaa | tgaacattt | atagttgccc | aaattttggt | 2400 |
| accttttagg | agaaaaatac | agattttttt | gttggttaaaa | ataaacttaa | aaaaaaaaaa | 2460 |
| aaaaaa | | | | | | 2466 |

<210> 460

<211> 1739

<212> DNA

<213> Homo sapiens

<400> 460

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| ggcacgagag | atcctcagga | tatcttttagc | caaaggaaaa | gctccgcatt | cccacctggg | 60 |
| gggaaagctg | gattgccatg | ggcacgaagt | agtgggtgcag | agtcacctggc | catcctgaat | 120 |
| atccagaatg | gtgtttctga | agttcttctg | catgagtttc | ttctgccacc | tgtgtcaagg | 180 |
| ctacttcgat | ggccccctct | accagagat | gtccaatggg | actctgcacc | actacttcgt | 240 |
| gcccgatggg | gactatgagg | agaacgatga | ccccgagaag | tgccagctgc | tcttcagggt | 300 |
| gagtgaccac | aggcgtgct | cccaggggga | ggggagccag | gttggcagcc | tgctgagcct | 360 |
| caccctgcgg | gaggagtcca | ccgtgctggg | ccaccagggtg | gaggatgctg | ggcgcgtgct | 420 |
| ggaggggcac | agcaaaagca | tctcctacga | cctagacggg | gaagagagct | atggcaagta | 480 |
| cctgcggcgg | gagtcaccac | agatcgggga | tgccactcc | aactcggaca | aatccctcac | 540 |
| tgagctggag | agcaagttca | agcaggggca | ggaacaggac | agccggcagg | agagcaggct | 600 |
| caacgaggac | tttctgggaa | tgctgggtcca | caccagggtcc | ctgctgaagg | agacactgga | 660 |
| catctctgtg | gggtcagggg | acaaatacga | gctgctggcc | ctcaccatta | ggagccatgg | 720 |
| gacccgacta | ggtcggctga | aaaatgatta | tcttaaaagta | taggtggaag | gatacaaatg | 780 |
| ctagaaagag | ggaatcaaat | cagccccgtt | ttggagggtg | ggggacagaa | gatggggcta | 840 |
| catttccccc | atacctaata | tttttttata | tcccagattg | cacttttgaga | atacatctaa | 900 |
| ggtcatcttt | caaaagagaa | aaattggaca | cttgagtgac | tttgttttta | gttttgtttt | 960 |
| tgtacattat | ttatgtgatt | gttatggaat | tgctcacctgg | aaagaacaat | tttaagcaat | 1020 |
| gtcattttcta | gatgggtttc | taattctgca | gagacaccgg | tttcagccac | atctaaaaga | 1080 |
| gcacagttta | tgtgggtgcg | aattaaactt | ccccatctg | cagattatgt | ggaaataacc | 1140 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| aaagataata | gtgcatagct | cctttcagcc | tctagccttc | actcctgggc | tccaaaagct | 1200 |
| atcccagttg | cctgtttttc | aaatgaggtt | caaggtgctg | ctttgcatgc | ctgccaaacc | 1260 |
| atggaagttg | tttcttactt | cttttctctc | ttatttatta | accatgggtc | gagagtgtgt | 1320 |
| tttgttctat | gtaacagtat | tgccacaaaa | ctataggcaa | atcgtgtttg | cagggagatt | 1380 |
| tctgatgcct | ctgtgggtgt | gtgtaagtta | aagtggccac | atttaagaag | gccaaagctt | 1440 |
| gtagtgggtg | cacagtcaca | ctgatatgct | gatttgctct | ttctcattgt | atgtctatgc | 1500 |
| tttgtcatca | gtgctatagt | aaattacaaa | gaaataggta | gattgtatga | acataccac | 1560 |
| aaatgcctat | gatttaggtt | accaatgtat | tctttctcat | ttggggtttt | gttctgtct | 1620 |
| gtctgtttat | tggaaacttg | tacttcaagt | agggggaatc | ctaattctaa | taactcctta | 1680 |
| gctaagtttt | attattcagg | caataaacat | gttttcatgt | aaaaaaaaa | aaaaaaaaa | 1739 |

<210> 461

<211> 1139

<212> DNA

<213> Homo sapiens

<400> 461

| | | | | | | | |
|------------|-------------|----|------------|-------------|------------|------------|------|
| ggcacgaggt | cactccta | at | gtaggatggg | acgattgccc | caagctctgt | cgtgagtgg | 60 |
| tgattgacgg | ttttctta | ag | ggaacaatgc | tgggaaagat | gataggcgcc | cgccactgac | 120 |
| ccctcccgcg | tcctgcccc | cc | tcagtaaac | tcccacacaa | aatagcagta | tgaggtgtgg | 180 |
| ggaaataatc | ttggcctccg | tc | ctgggttt | acttttgact | ctgccaccta | caagctgtca | 240 |
| cctgaacaag | tcctttccgt | tc | ctgtgtct | tccttggtca | caagctctaa | gcctgaaccc | 300 |
| acactctggg | aatgaagcag | gg | tagcggcc | tctgcttcag | caactctgag | gggtctacct | 360 |
| tgggtgggga | gttggcctca | tc | cagagggc | tgctggaggg | ccaagacaag | gctctggtgg | 420 |
| ggaggtgtgc | tgagagggga | tt | gcttatcc | caccaccagc | tttctgggg | gaggtgggga | 480 |
| agtgatgggt | aaaaaatgga | gt | tctgcta | tcagccatgt | cctgatgaat | tggaaagtc | 540 |
| ccttctttct | cctttcctct | tg | catctcct | gcctgcttcc | cctgcctgcc | ctcctgtgac | 600 |
| atgtgccctc | tcagcaggt | at | gtcacaca | gcacccaag | ggaagggcag | tgtaacgctc | 660 |
| ttttccatga | tggaactacca | ca | gccagagg | aagacaggcc | ttcccttctt | ttctagtctt | 720 |
| ttttggtttg | aaaacaaggc | ac | tcttattt | tccccttcca | agaagctggg | ggttcacacg | 780 |
| ggccagcaca | cacattatca | aa | gacctagt | ttgtttctag | taaagagtc | cattgaagtg | 840 |
| ggagccttgg | ccgggcaagg | tg | gtcacac | ctgtaatccc | agcactttgg | gaggccgaga | 900 |
| tggttggttg | gagatcgaga | cc | atcctggg | caacatggtg | aaaccctgtc | tctactaaaa | 960 |
| atacaaaaat | tagctgggcg | tg | gtgacaca | cacctgtagt | cccagctact | caggaggctg | 1020 |
| aggcaggaga | atcgcttgaa | cc | tgggaggc | ggaggttaaca | gtgagccgag | attgcgccac | 1080 |
| tgcactccag | cctgggcgac | ag | agtgagac | tgtctctcca | aaaaaaaaa | aaaaaaaaa | 1139 |

<210> 462

<211> 2648

<212> DNA

<213> Homo sapiens

<400> 462

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|------|
| ggcacgagct | tgtaggtact | cattgaggtt | tattgtgtaa | gatgaatgaa | tgttgcaaat | 60 |
| tcctaaacat | gtgattcaga | tgcccaatct | tactctgtta | ctttatgaaa | attttttaaa | 120 |
| gtatatgat | gttatatcaa | aatatgttgt | tatactttag | gataatcggg | gtggttagccc | 180 |
| tgaatttcag | cataagtccc | atttttttcc | atgggagtct | aggaaagcta | tatgtttatt | 240 |
| cagcagcaaa | atacagtttg | gaacttaaat | aaactattga | tcaatttctg | gtcttatgct | 300 |
| agaagggaata | aagcatcaag | aaaaagaaaa | gatttgctgt | caagaccagg | aaaatttgac | 360 |
| aatagagtat | tagaatgcag | gaaatgaggg | gaagtggaaa | ggcagcaagt | aggagagaaa | 420 |
| aagtgcaggg | acagtagaaa | gtgaatgtag | gagctttctg | accatgcac | ttcaggaacg | 480 |
| caattcatcc | ctaaaatgct | gtttgctgtc | ttaggttgca | agtaaccaaa | ttaaaaccag | 540 |
| tttgaaaagta | gagtgagaca | gctgtcatca | taagagtcac | ttgatctgtt | taaaggtggc | 600 |
| tgcttgtatg | cagggaccaa | cagtcatgtc | cagggcagca | gctgggtgcac | acttcaagca | 660 |
| cagaccataa | gagctacccc | aggcagcacc | tgctaccaat | agtgcacaaa | actcagagag | 720 |
| acctcgttgg | cataagggga | tactctctcc | tttctgagta | aagagcaagt | agaactaaag | 780 |
| gtttcacatt | ttaaacatac | tttacattcc | tcctcttctg | gggctcaagc | ctacttttgg | 840 |
| gccaaagcgg | atgttatatc | tgacatagag | tcctcgagc | agcagttgtt | cctgaaaagt | 900 |
| cctttttgca | tctttgtgcc | tcattgcagtg | gcttacaggt | caaccagact | tctccctga | 960 |
| cttttgatgt | gtaagagctt | gtgtttcaaa | tgggtttggg | tttcttaatg | tcaccctagg | 1020 |
| ttgggtggaaa | ggagagtaaa | tggaaatggg | gggagcaggg | tcccctgggg | aggttttaac | 1080 |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| agatggaagt | caattgtctc | ttgagaatag | aggaggctat | tgagttttca | ttccacactc | 1140 |
| tgctcctggt | ctgtcagcaa | agaacaagga | ctactctcca | gcaattgctt | tccactggac | 1200 |
| tccccacccc | cggctccccc | aaaaacctag | ggatcaactt | agttcactcc | aaattagaaa | 1260 |
| atttaaatag | catttggttc | ttcttgtcca | caggagaaac | cattttcttt | ccttctttca | 1320 |
| aaattgcccc | ggctctgtga | agggttatta | acaccagaaa | gaaatacatt | ttaataagct | 1380 |
| taaatctcat | ttctacatga | aaccatcaga | ttttagtact | gcaatatttt | gateccctctg | 1440 |
| tcttttaggc | tctgacacca | aaattgccat | aatgaagggt | tttcaactct | tctcatttat | 1500 |
| ttttatggga | tcttttatcc | ccaaatgcct | tttcatccca | gccaaaggga | gaaatgttga | 1560 |
| tagatctgcc | atcaagaagg | ttccaaagct | ggcctgtcag | gttttctgtt | tccttgttta | 1620 |
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| tgatagcatt | gaaagtactt | tatgggtttt | aatttattta | atgctcatga | aaccctatga | 1740 |
| ggtaggtact | gatattatct | ttattttact | gatgaggaaa | gtgaagcaaa | gagaagtga | 1800 |
| atgaaaggta | gtgagtgtat | ggaccagggt | ttggacatgg | gcagtctggc | tctaaaatgt | 1860 |
| atgcttttaa | ctactatgta | atgctgcctc | accaacaact | tgtctcacia | attgatattc | 1920 |
| tggatcagag | gatgtcgact | ggcctgcaaa | tgtattttgt | atggctcata | cacagttcag | 1980 |
| aagttttaaa | aatttacata | gaaatctgca | tttcttgact | tcttttga | atgggaatac | 2040 |
| caaacatcat | taggcttgaa | ttcccaatac | ggcaacaaca | gctgagcaac | aagcagctgt | 2100 |
| ttagactagg | caccttccgt | tcattccagc | ccacaatgca | gatcatagta | tcgacttaaa | 2160 |
| tttcttgctc | gccttagaga | agcttctgag | cttgtgacct | ctattctagc | tgctctatga | 2220 |
| atggacgctg | ccccagtaca | gcgaggacct | gctgcaaaat | gcatttctta | gtcttcaata | 2280 |
| cttattcctc | cttgtaactg | gatttctggt | aagttatgtc | tcatgggtga | tctgccccaa | 2340 |
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| ccagccacat | ggttgatgtc | agctgggttt | ccagagccag | agctgggttg | caggacagac | 2460 |
| acacctgcat | ctaatagtga | aaggcaaat | tgaaggccca | agaccagcct | gaggtctgag | 2520 |
| ggaccaaggg | cttcacagag | gccagaagtt | cagagggtga | cataaaaggt | gttaggagaa | 2580 |
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<210> 463

<211> 3107

<212> DNA

<213> Homo sapiens

<400> 463

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| taaagggggc | tacaacgtgg | ctgtgatgtt | tgaccgctgc | cgggtcactt | cctgcagctg | 120 |
| tacctgtggg | gctggggcca | aatggtgcac | ccacgtcgtg | gcactctgtc | tcttccgcat | 180 |
| ccacaacgct | tctgcagtct | gcctgcgagc | cccagttctc | gagtcctctg | cccggctaca | 240 |
| gagggaaccg | ctgcaaaaagt | ttgtctagta | cctcatcagt | gagtcctctc | agcagggtggg | 300 |
| tgagggtcggc | acccccctct | gcaattagct | ccggggcagg | ccgcataaca | gccttctctg | 360 |
| tagggcccagg | cctccatggg | ttcacctagg | ccgtgttctg | cctgcctccg | tctctttctc | 420 |
| cctcagatcc | tccccacagc | tcagcgtctc | ctggacgaac | tcctgtcttc | ccagtcaaca | 480 |
| gccatcaata | cagtgtgtgg | agctccggac | cccacagcag | ggccctcagc | atcggaccag | 540 |
| agtacttggg | atctggatga | atcgacactc | actgacaaca | tcaaaaagac | actgcacaag | 600 |
| ttctgtggcc | cctcccctgt | ggtcttcagt | gatgtgaact | ccatgtatct | gtcttccacg | 660 |
| gagccgcccag | ccgctgctga | atgggcatgt | ctgctgcgcc | ctctgagggg | ccgtgagcca | 720 |
| gagggcgctc | ggaacctgct | aagcattgtg | cgaggagatg | tcaagcggag | ggacagcaat | 780 |
| gctgccccct | tggttgaaat | cctcactgac | cagtgcctca | cctatgaaca | gataacaggt | 840 |
| tggtggtata | gcgtacgtac | ctcagcctca | cacagcagtg | ccagtgggca | cacggggcgt | 900 |
| agcaacgggc | agtcagaggt | ggcagcccat | gcctgtgcca | gcatgtgtga | cgagatggtc | 960 |
| acactgtgga | ggctggccgt | gctggaccct | gcactcagcc | cccagcggcg | ccgggaactg | 1020 |
| tgtacgcagc | tgccggcagtg | gcaactgaag | gtgattgaga | acgtcaagcg | gggccaacac | 1080 |
| aagaagacgc | tggagcggct | cttccccggc | ttccggccag | cgggtggaggc | ctgctacttc | 1140 |
| aactgggaag | aggcctaccc | acttctctgt | gtcacctaca | gcggcactga | caggaagctg | 1200 |
| gactgtgct | gggcccgggc | cctgccctct | cggccagggtg | cctcccgtct | tgggggcctg | 1260 |
| gaggaatccc | gggaccggcc | cggaccctt | cctactgagc | cagctgtgcg | gccaaggag | 1320 |
| cctgggacca | agcgaagggt | cttgggtgag | gggggtccct | catcacagcg | gggtccccgc | 1380 |
| cgctctctag | ctgaaggggg | agataaagct | ctacataaga | tgggtccagg | tggggggcaa | 1440 |
| gccaaggcac | tgggtggggc | tggcagtggt | agcaagggtc | cagcaggtgg | cgaagcaag | 1500 |
| cgacggctga | gcagcgaaga | cagctccctg | gagccagacc | tggccgagat | gagcctggat | 1560 |
| gacagcagcc | tggccctggg | cgcagaggcc | agcaccttcg | ggggattccc | tgagagccct | 1620 |

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<210> 464

<211> 1466

<212> DNA

<213> Homo sapiens

<400> 464

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<210> 465

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 465

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| ntcttgtgcc | aggcactggg | atatggtgcc | gaattggata | caagggagat | gggacgtcct | 60 |
| cctgtgtgtc | ttgactgtcg | gtgtgttgcc | gagcattggt | agcagagggg | gctggtttgg | 120 |
| cacccaggta | ccctgcctca | tccccggggc | cttggccagt | ctacacagag | gaactgcctt | 180 |
| ccagctgagt | taccattttt | ccatggcagg | gaggacagca | gaaaggccgt | gttccatgac | 240 |
| taatcatagc | ttccatctat | tgagcattta | ctggggagctg | ggcactgtgc | taagtgtgaa | 300 |
| acgtgtgttg | actcatttac | tacaacaacc | tggcaaggca | ggttcttccg | ttagcccttg | 360 |
| ctcaaagcta | ggggaccttg | agcacaggcg | gtcaagtgtc | tggctcaagg | cacacagctc | 420 |
| agaagtgcag | atcctctgcc | cctcctggca | tcccagctctg | gggggggtcag | gggtgggatc | 480 |
| tctgcagtca | gtgcctgggg | gctggatgac | aagctgcagc | ctccccgcaa | ccccacgatt | 540 |
| tccatagcgc | agtggagcca | gaaaga | | | | 566 |

<210> 466

<211> 1274

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (722)..(722)

<223> n equals a,t,g, or c

<400> 466

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| aggccggggc | gggacgagga | gagctgcggg | gacaacgcct | gtggctgggt | ccggagtgcg | 120 |
| ggtgcggcgc | gggacaagcg | ggcagcatgc | tcagggcggt | cgggagccta | ctgcgccttg | 180 |
| gccgcgggct | aacagtcgc | tgcggcccg | ggcgccctct | cgaggccacg | cgacggcccc | 240 |
| caccggctct | tccgccccgg | ggtctccct | gctactccag | cggcgggg | cccagcaatt | 300 |
| ctgggcccc | aggtcacggg | gagattcacc | gagtccccac | gcagcgagg | ccttcgcagt | 360 |
| tgcacaagaa | aatcctgctg | tggacagggc | gtttcaaata | gatggaggag | atccccgcctc | 420 |
| ggatccccgc | agaaatgata | gacaccgcaa | gaaacaaagc | tcgagtgaag | gcttggtaca | 480 |
| taatgattgg | actcacaatt | atcgctgct | ttgctgtgat | agtgtcagcc | aaaagggctg | 540 |
| tagaacgaca | tgaatcctta | acaagttgga | acttggcaaa | gaaagctaag | tgscgtgaag | 600 |
| aagctgcatt | ggctgcacag | gctaagctta | atgatattct | aagtgcacaa | gtgttcacct | 660 |
| gaataccatc | cctgtcatca | gcaacagtag | aagatgggaa | aaatagaata | tttaccacaa | 720 |
| tntctgccat | gggttttatt | tggtaacaag | aagcacaatg | tcttttttat | ttttattttt | 780 |
| tagtaaacct | ttactgaagt | ataccatgca | ttcaaaaagt | ggacaaaact | gtatacagtc | 840 |
| tgatagatat | ttatgtcgtg | aacacctgtg | taaccactgc | caaagtgaag | atgtagaata | 900 |
| ttggcaacac | ttcacagcct | cattcctgcc | ttttctcagc | cattacctcc | caaacatagc | 960 |
| agtttttctg | agtttcatca | cctttgattc | attttgcctg | tttttgaact | ttatataaat | 1020 |
| ggattttatac | attatgcact | tgtgtgtgtg | gattattttac | ctgacagtta | taaggttaat | 1080 |
| ccacaaattg | tgtgtaccat | tagttcatcc | attgtcattg | ctgtattctg | ttgtataaac | 1140 |
| ataccacaat | ttattttgat | attttgcaca | gtttctggcc | actacatata | atgctaaaat | 1200 |
| gagcacattg | tatatgtcat | taaaatgagg | ttgaactaaa | aaaaaaaaaa | aaaaaaaaaa | 1260 |
| aaaaaaaaact | cgag | | | | | 1274 |

<210> 467

<211> 1217

<212> DNA

<213> Homo sapiens

<400> 467

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| cttctgtctt | ttgcctctgc | aattcttttt | gtagctggca | cgatagcagg | gactgggggt | 120 |


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ctatccctttc atgggtattgc tacaatatatt gtccttactg gaaaatggta acatccgggt 180
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<210> 468

<211> 1656

<212> DNA

<213> Homo sapiens

<400> 468

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<210> 469

<211> 990

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (834)..(834)
 <223> n equals a,t,g, or c

<400> 469
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 gtacgttctg tgtttggtat tactgaaacc acatttttaa aataacactc attaatgttag 720
 aaatatatga gtttagattg taaaagaatg aggaattgaa atagtgtat accatattga 780
 tgaatataga gtttttagga tacctcttac ctgaaatatt aataataatg tttncagagc 840
 atattatata taattatttg tgatttaatc tgttaatatg aatatctcat ttaaaacttt 900
 tatttctgaa aaaattatat tgaataaaat tttatatagg cagtccccag ccctttcctc 960
 cttcaaagtt gtcttataga gtgattggtt 990

<210> 470
 <211> 2543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2538)..(2538)
 <223> n equals a,t,g, or c

<400> 470
 ctccgttggg aacttgggct gagtaccgag gcggggcgga gcraggcgcc ctagacatct 60
 tctccctccc ttgctcaga tttattgcta aacatgggtg catttttggg taaacccaaa 120
 actgaaaaac ataatgctca tgggtgctgg aatgggttac gttatggcct gagcagcatg 180
 caaggatgga gagtggaaat ggaagatgca cacacagctg ttgtagggtat tcttcacggc 240
 ttggaagact ggtcattttt tgcagtttat gatggctcatg ctggatcccc agtggcaaat 300
 tactgctcaa cacattttatt agaacacatc actactaacg aagacttttag ggcagctgga 360
 aaatcaggat ctgctcttga gctttcagtg gaaaatgtta agaattggtat cagaactgga 420
 tttttgaaaa ttgatgaata catgctgaac ttttcagacc tcagaaacgg gatggacagg 480
 agtggttcaa ctgcagtggtg agttatgatt tcacctaacg atattctact tatcaactgt 540
 ggtgattcac gtgctgttct gtataggaat ggacaagtct gcttttctac ccaggatcac 600
 aaaccttgca atccaaggga aaaggagcga atccaaaatg caggaggcag cgtgatgata 660
 caacgtgtta atgggtcatt agcagtatct cgtgctctgg gggactatga ttacaagtgt 720
 gttgatggca agggcccaac agaacaactt gtttctccag agcctgaggt ttatgraatt 780
 ttaagagcag aagaggatga atttatcatc ttggcttgtg atgggatctg ggtgttatg 840
 agtaatgagg agctctgtga atatgttaaa tctaggcttg aggtatctga tgacctggaa 900
 aatgtgtgca attggtagt ggacacttgt ttacacaagg gaagtcgaga taacatgagt 960
 attgtactag tttgcttttc aaatgctccc aaggtctcag atgaagcggg gaaaaaagat 1020
 tcagagtgtg ataagcactt ggaatcacgg gttgaagaga ttatggagaa gtctggcgag 1080
 gaaggaatgc ctgatcttgc ccatgtcatg cgcattctgt ctgcagaaaa tatcccaaat 1140
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 ctgaatccac atagagaaaag tgatgggggt gctggagatc tagaagaccc atggtagcct 1260
 taaaaacctt ctaaaatgct tttrattctg aaaattgggg gaaaaaactt ttaatcacia 1320
 ttttcttcaa tacaagggga aaatattctt gcggattccc aacgttttgt gatatgagca 1380
 gaaaatcatt agcatttccc atcatttgtt catattttgt ttttctgaca gttgccactt 1440
 gtagcattgc ctgtactaca gtattttttg ccaacctcag gcatactcgt tacatctgta 1500
 ttgaactttc ggccttagaa accagtggag ttatttcacc acaaatcaac aatgtgcctg 1560
 aggtgcatgg gaaatatagt tagctatact ctgaaaatac attatgtttt ttttctttaa 1620

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| acaaaaacaca | caacatgtaa | gcatgtaaga | gtaaagaatt | gtatgatatg | ttcctttttt | 1680 |
| cagttcacca | agttggaagc | cttttgcagc | tctgtggctt | ggaatttcat | ttgagcaatt | 1740 |
| tctataggat | atgtatttat | tattgattgt | tatttaawww | wwttccamt | ttacctgtat | 1800 |
| taccaaactg | ggttctccaa | taatgtccaa | attgtaattg | tgccttgcct | caagataaag | 1860 |
| tgtatttggg | aataatatta | ttaaaccctm | caaattttat | gcatgtatct | actgcatcct | 1920 |
| tcaactctca | ctagaaaatc | ttttgaaacc | aaatggatta | atttatggct | atttataatt | 1980 |
| tgctttgaca | tctcactggt | ggaaattttt | taaagatgag | atttgccttt | ataatgtaaa | 2040 |
| ttgtgatttt | tgttttacat | gtgggtttct | atagttttta | ttttttcagc | ttttaagata | 2100 |
| cgagttttgt | gtaatttggg | atttttaatc | atttatgtta | ttttaaaagc | tcagaatatc | 2160 |
| acattgaaat | tactataaat | acatttaaaa | ttatctattt | tagatctaag | gaaatactac | 2220 |
| agagataatt | tcatgggttc | agtaactttt | cattttataa | cattgggcac | ggtacagagt | 2280 |
| gattgtcaca | taaggtactt | gaagatttat | tagtttaatt | ctatttttac | agtaaccttg | 2340 |
| aattcttctg | agttttgcat | gtattaaatt | caattaatgc | tgaacatgaa | gagtaaagta | 2400 |
| tttatctgaa | agaagtttct | gggttaggag | aagtaatgaa | tgtatccatt | tgtacatggt | 2460 |
| ttacatgttg | tggatgcttt | gtaaacattt | tcctgtatgt | ttaaattgtg | tttcagcagg | 2520 |
| atgtagtgtc | ccttgtgnag | gtt | | | | 2543 |

<210> 471

<211> 1461

<212> DNA

<213> Homo sapiens

<400> 471

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|------|
| aattcggcac | gagccaaatg | attatccttt | taatcatgtt | ctactccaaa | aatatcagcc | 60 |
| tgatgatgaa | tttccagcct | ccgagcaaaag | cctggcgggc | ctcacagatg | atgactttct | 120 |
| tcatcttctt | gctctttttc | ccatcttttca | ccgggtctct | gtgcaccctg | gccatcacca | 180 |
| tctggagatt | gaagccttca | gctgactgtg | gcccttttcg | aggtctgcct | ctcttcattc | 240 |
| actccatcta | cagctggatc | gacaccctaa | gtacacggcc | tggctacctg | tgggttggtt | 300 |
| ggatctatcg | gaacctcatt | ggaagtgtgc | acttcttttt | catcctcacc | ctcattgtgc | 360 |
| taatcatcac | ctatctttac | tggcagatca | cagaggggaag | gaagattatg | ataaggtgc | 420 |
| tccatgagca | gatcattaat | gagggcaaaag | ataaaatgtt | cctgatagaa | aaattgatca | 480 |
| agctgcagga | tatggagaag | aaagcaaaacc | ccagctcact | tggtctggaa | aggagagagg | 540 |
| tgaggaacaa | aggctttttg | catttggggg | aacatgatgg | cagtcttgac | ttgcgatcta | 600 |
| gaagatcagt | tcaagaaggt | aatccaaggg | cctgatgact | cttttggtta | ccagacacca | 660 |
| atcaaataag | gggaggagac | gaaaatggaa | tgatttcttc | catgccacct | gtgcctttag | 720 |
| gaactgccca | gaagaaaatc | caaggcttta | gccaggagcg | gaaactgact | accatgtaat | 780 |
| tatcaaagta | aaattgggca | ttccatgcta | tttttaatac | ctggattgct | gatttttcaa | 840 |
| gacaaaatac | ttgggggttt | ccaataaaga | ttgttgtaat | attgaaatga | gcctacaaaa | 900 |
| acctaggaag | agataactag | ggaataatgt | atattatctt | caagaagtgt | gtgcaggaat | 960 |
| gatttggttct | tagaaatctc | tcctgccaga | cttcccagac | ctggcaaagg | tttagaaact | 1020 |
| gttgctaaga | aaagtgggtc | atcctgaata | aacatgtaat | actccagcag | ggatatgaag | 1080 |
| cctctgaatt | gtagaacctg | catttatattg | tgactttgaa | ctaaagacat | cccccatgtc | 1140 |
| ccaaaggttg | aatacaacca | gaggctcat | ctctgaactt | tcttgcgtag | tgattacatg | 1200 |
| agtcttttga | gtcggggatg | gaggaggttc | tgccctgtg | aggtgttata | catgaccatc | 1260 |
| aaagtcctac | gtcaagctag | ctttgcagt | gcagtaccgt | agccaatgag | atttatccga | 1320 |
| gacgcgatta | ttgctaattg | gaaatttttc | caatacccca | ccgtgatgac | ttgaaatata | 1380 |
| atcagcgctg | gcaatttttg | acagtctcta | cggagactga | ataagaaaaa | aaaaaaaaaa | 1440 |
| aaactcgagg | gggggccccg | g | | | | 1461 |

<210> 472

<211> 559

<212> DNA

<213> Homo sapiens

<400> 472

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gattcggcac | gagctgaagc | cctgggtgcc | actgctggcc | cagcagggag | gaggttgctg | 60 |
| ctgctcgggc | tgaagtgagg | tgtgggtctg | gctgggcctc | cagtttccca | cctgggcctt | 120 |
| gattgtgagg | aaggcctggc | ctggctgcag | aagcccagaa | gcacctgagt | aggagagttc | 180 |
| ctttgtccca | cctgcagctc | attcaagcct | gtgcatgggg | gttgggggtc | tcaggatctt | 240 |
| gctttctctg | ttaggggagg | cagcccaaaa | gagtgtggg | accagtttgg | agagtgtctaa | 300 |
| ggaatgctgg | tctgcagcga | ccctacttgt | gctctgcgtc | ctctgccaac | tgcagcatgg | 360 |

gtgaacatct gtacatctgt ccccataatg aaaatggcct cagcaaataa caaaaatatt 420
 accatttagc aatcaggcac ttattaaaag cctggcccaa taaacttaaa aaaaaaaaaa 480
 aaaaactcga gggggggccc ggtacccaat tcgccctata gtgagtcgta ttacgcgsgs 540
 tcamtggccg tcgtttaca 559

<210> 473
 <211> 803
 <212> DNA
 <213> Homo sapiens

<400> 473
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 gttgaagccg gagcaggaga gggggccctg actcccatgt gtccttgtag gcaggagcag 120
 ttcgtggact tgtacaagga gtttgagcca agcctgggtc acagcaccgt ctacatcatg 180
 gccatggcca tccagatggc acctttcggc atcaattaca aagtaaggcc tggggccctgc 240
 cmaaacattc actgtctgcc caccagccc caccatga agccatctgt ccctcatccc 300
 cacagggcc gcccttcatg gagagcctgc ccgagaacaa gccctgggtg tggagtctgg 360
 cagtttcaact cctggccatc attggcctgc tcctcggctc ctgcgccgac ttcaacagcc 420
 agttttggcct cgtggacatc cctgtggagt tcaagctggc cattgcccag gtcctgctcc 480
 tggacttctg cctggcgctc ctggccgacc gcgtcctgca gttcttctg gggaccccga 540
 agctgaaagt gccttcctga gatggcagtg ctggtaccga ctgcccacc tggctgccgc 600
 tgggcgggaa ccccaacagg gcccgggag ggaaccctgc ccccaacccc ccacagcaag 660
 gctgtacagt ctgcctctg gaagactgag ctgggacccc cacagccatc cgctggcttg 720
 gccagcagaa ccagcccaa gccagcacct ttggtaaata aagcagcatc tgagatttta 780
 aaaaaaaaaa aaaaaaactc gag 803

<210> 474
 <211> 819
 <212> DNA
 <213> Homo sapiens

<400> 474
 aattcggcac gagggaaact catgcacaaa caaaacagca catgctgtac tcacagccag 60
 ttacacagaa tgctcatgca tgcactctgt gcttattaat tttcttcctg ctgtttgtat 120
 cattcttttg aagaatctcc agcaagcttt gtgctttggc caattgttta taatgtctat 180
 aaatcagggg cttggaccaa atgaaatgtc ttagtagtgt ttgcaaaata tttggatatt 240
 ctgattgcgt tttattttcc cagctttaga aaacatatag atagcctctg ttgggaactt 300
 atattctcgt tactccttgt ctcttttctt ttttcaggaa ttggtcactc ttccagccaa 360
 ctcgtaggtt caaacaatgt ttacatgtag tgctcagttt gttttaactt cckgctgtag 420
 acattgacag ttttttyctc cyaagagtct tatgaatagg caacaaacca aaacaaaac 480
 aggcaagtcc catctattac tacgtactta caaatccagg tgaaagtgtc tgggtgaacag 540
 tctatgtttt agcaactgtt ttttaacgtt tgggtgtgac attttttaac aacagccatt 600
 gttcaattgt taaactatgt ttggatttga ggtctgaatg agctgaattc aaaatatggg 660
 actttttatt agaaaccctg gtaaagtggc cactggggaa aaagcccaag atttcatgtg 720
 tttgatttat tgactatgtg cgtcaacagc ctgcttttaa ttctcagagt aaaataaaaa 780
 tactcagaat ctaaaaaaaa aaaaaaaaaa aaaactcga 819

<210> 475
 <211> 1414
 <212> DNA
 <213> Homo sapiens

<400> 475
 ggcacgagcc ttgagctagc atttcattat gaccgtgatt tttccccgca ccactttcca 60
 gccttgtggt ccacaattcc actgggcctt aagtatgtac tgaactttcc tgcctccctc 120
 attttgcctc gcttgtgcaa ttttttccac cctcatctc tgtcaaacgt aagccttctt 180
 gaccttaag acctaccttt gtcagtacc tttaccctca ggcaaggagc aatctcttct 240
 ctctctcttc taccttctg tagcttctcc ccaaggattt atcacattct gccttgaatc 300
 ataggggaaca gcatgtgtag tggaaatgaac acaggcctct gaatccaaga tacgagttta 360
 aatcccagct ttggagggtg ttacttaaag tctcagtgcc ttcatctctc ttctatatata 420
 aagtagatat tacaatatct aacttacaga gtcattggga gctatacatg cagcgattgg 480

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| gtaaagcacc | tggcacatgg | caagcgatta | gcaaattgctg | gttacttcta | cttcttttctc | 540 |
| ttcccttttc | ccagtctatc | ataatttcct | tgagagcagg | caccatgtct | tattttaccct | 600 |
| tgtatttccc | acagtacttc | ccatagttag | ttacccttag | taaatactca | gtaagttgaa | 660 |
| ttgaatttaa | attacctgta | agtcttaaaa | tgtgggatta | aattaagaat | atattgtcct | 720 |
| ggaaatcccc | aagtgtctat | tgatggatga | atggataaac | aaaatgtggt | atacacataa | 780 |
| tggaaatatta | ttcagcctta | aaaaggaatg | aaattctgac | atgtgctaca | atatgatgaa | 840 |
| cctggaagac | attatatgtg | aaataagcca | gacagaaaag | gacaaatgct | gtatgattcc | 900 |
| acttatgtga | agtaccctaga | gtagtgtaat | tcatagaaac | agaaagtaca | ggttgacatc | 960 |
| caaaatctga | aatgagaaat | gctccaaaaa | ctgaaacttt | ttcaatgccg | acacgatgct | 1020 |
| caaagaaaat | gctaattgga | gcatttcaga | ttttggattt | ttggatttgg | gatgctcaac | 1080 |
| tggcataatg | tgaatattcc | aaactctgaa | aaaatctgaa | gtctaaaaca | cttctggtct | 1140 |
| caaggatttt | ggataaagga | tactcaatgt | gcaacatgta | gaatgggtgt | tgcaagggtg | 1200 |
| gaggagagaa | tggagagtta | ctgtttaatg | atacaatgtt | tccgtttggg | aagatggaaa | 1260 |
| gttttggaga | tgtgtgatgg | ttatgggtgc | gcaacaatgg | gaaggctactt | agtactgctt | 1320 |
| aactgtgcac | acttaaaaaa | ggtaaaaatg | ataaattttg | tgtatgtctt | aaaacaataa | 1380 |
| aagaagtttt | ttaaaaaaa | aaaaaaaaaa | aaaa | | | 1414 |

<210> 476

<211> 1340

<212> DNA

<213> Homo sapiens

<400> 476

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------|
| ggcacgagaa | agaaaggcga | gagaaaaatc | aaggcaccaa | atttagattg | gaggtctcag | 60 |
| aggagcagtg | ttttccctcc | ttcgtaacag | ttgaacaact | tccagatgta | gctagtgcga | 120 |
| ccccctgtaa | agatgcaggc | tctttacaat | gaagacacat | cttctgatgt | tccttctctc | 180 |
| ctgtatggcc | agatgcacag | gaatagtgcc | caaaagacct | cagcctgctt | tccctttaag | 240 |
| gggaaggaga | agaaaaaact | cctttttatt | tttactttct | ttcagcattg | aatttttggt | 300 |
| gtgtgtatgg | tgacttctgt | ttttgggaaa | cgaagaagc | cagcagcatg | ctgaattgtc | 360 |
| ctgacaggct | tccgctggct | cttgccgagg | ttagcagtg | tttttttgta | tttaaaccat | 420 |
| ctcccgggca | gtgtaaaaag | tttgcaagg | cggacattct | gtctgactgg | tctcggcagt | 480 |
| gctctataac | cctgttgtgt | ttcttgataa | aacacagccc | caccctttaa | taaagcaaa | 540 |
| attgctatga | aaccagagag | tctattcatt | actgtggagt | aactagagca | gtctgtagtg | 600 |
| actagacata | cggcaattag | gaagtcattg | agttgggatt | tttgtcttaa | ttttggctgc | 660 |
| tcaaagtgcc | ccctgtagga | tattcttttt | tcgggaattg | tttccaaact | tgccgtctct | 720 |
| tatctatggt | gaaactcaag | ccgcttttta | aggcaagcct | gcaaacccaa | gtatcaacat | 780 |
| gggctcctga | aggcacagg | agcagattca | cagttctgac | cagtgttagg | gtccccacga | 840 |
| gggccaccca | tttgaactca | aggttggcag | actctggccc | cagcacttgc | cgtgggttca | 900 |
| ggatggccag | cgggtgacac | gggctatgga | accctgggtc | ttcatctctt | cccatatcct | 960 |
| ttgtttcacc | ttctttttgc | ccatatttta | ttgtgcttca | gatagaaatt | ttattttataa | 1020 |
| gataaaaagt | agctctgagg | ctgggcacgg | tggtctatgc | ctgtgggtccc | agcactttgg | 1080 |
| gaggccgagg | tgggtgggtc | acgagctcag | cagatcaaga | ccatcctggc | caatatgggtg | 1140 |
| aaaccctgtc | tctgctaaaa | atacaaaaat | tggtcggg | tggtggcggg | tgccgttagt | 1200 |
| cccagctact | cgggaggctg | aggcgggaga | atcgattgga | cccaggaggc | ggagggtgca | 1260 |
| gtgagcctag | atggcaccac | tgcgctccag | cctgggtgac | agaggggagac | tgccctcaaaa | 1320 |
| aaaaaaaaaa | aaaaaaaaaa | | | | | 1340 |

<210> 477

<211> 1676

<212> DNA

<213> Homo sapiens

<400> 477

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| ggcacgaggg | gacttcagaa | ccacagaact | gagatgataa | atgagtggtg | tttcaagttg | 60 |
| ctaagtttgt | ggtcatttgc | ttacagtta | tgtaaaactaa | tacacaagtg | taagtttgtt | 120 |
| ttcttaaaga | agaaaaaac | ggggaaggag | gtaagtgtta | aaggatcaaa | actctgacaa | 180 |
| aaggctggtt | gcagaacatg | acaggttgtt | gacttggaaa | ctatttgtca | tgcaagttta | 240 |
| tgtaaaaata | agtagctttt | gaggactttc | atttttggtc | ttgtaaacat | gccattta | 300 |
| attgtccmac | tgataatact | ttttgcaaac | agaaactgtt | aaaaccttta | aagcaaatat | 360 |
| tactgtagag | aagaagta | gtgttatgaa | actgtgagga | tactaagaag | gacccactt | 420 |
| aagtttcttc | agcataaata | aacttgagcg | tttcgaccac | tgttactgag | aatgaaatta | 480 |

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|------|
| tttcttaatc | acttttaaatg | aggtaaaatt | tacatacgat | aaaatgcacc | aatttttaag | 540 |
| tatagtttaa | tgagcttgca | cagatgtaaa | tatctgttta | acttctactt | aatcaagata | 600 |
| tagaatattt | ccacaatgcc | aaaattgcca | ttgacccctt | tccccttctt | tcacccaact | 660 |
| gcagacccca | ggtcaccacc | aacctactct | tgctcaatat | agattttaatg | tgatgtgtct | 720 |
| tttctagagt | tttatgtcaa | tagaattgta | cactatgcac | tcttccatgc | ctggctttct | 780 |
| ttgctcagca | graggtgttt | agattaattc | agtagttcat | ttctttctag | taatgaatag | 840 |
| gatcacatta | tacattatac | cacagagtgt | gcattccatta | ctttgtkgat | tgatatttgg | 900 |
| gtcattttca | ggttttggct | attgtgaata | aaactgcctt | gactattcct | gwacaagtct | 960 |
| ttgtattaag | gaacatacgt | tttattttct | cttgagggaag | ttcctagcaa | taagattgct | 1020 |
| gggtcatatg | gtaggatat | atttagcttt | aaaagcaact | aagtgtcttc | caaagtgact | 1080 |
| gtacaattta | acattcctac | ctgaaatgta | agagaattcc | agttgtctca | cattcttgtc | 1140 |
| aacccttggg | agcatcagtc | tctttaagaa | ttctaattga | tatgtaatat | ggactatagg | 1200 |
| tttaatttgc | atttctctgt | tgactaatga | tgttgcacaa | cttttcata | gtctatcaac | 1260 |
| cattcttgca | tcttctttta | tgaaatgtct | gttcaaatca | tttgtccact | ttttattgtg | 1320 |
| tcattttatt | cagttgtaag | agttctttac | atattctgga | aacaagtcc | ctgtcacata | 1380 |
| tataggtact | ttgaaaatct | gtgctttgcc | tttacatttt | tttaatggta | actttttaag | 1440 |
| agtagatagt | tttggttttg | atgaaattca | acttatcagt | ttttcagtta | tagtatgtat | 1500 |
| ttttatgacc | catctaagaa | gcattctgtc | acccagagtt | gcaaagatat | cccttttctt | 1560 |
| actagaaata | ttatagtttt | atttaccatt | gcttctatga | tacattttta | gttaattttt | 1620 |
| gtgtattaaa | tgaataaaaa | gttgaagtcc | aaaaaaaaaa | aaaaaaaaact | cgtagg | 1676 |

<210> 478

<211> 1747

<212> DNA

<213> Homo sapiens

<400> 478

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|------|
| ccacgcgtcc | ggctacctgt | gcattcgtgt | gctcatgctg | ctgctgctca | tcttctggat | 60 |
| cgcgcggccc | catgggccc | ccaacatcat | ggtctacatc | agcatctgct | ccttgctggg | 120 |
| cagtttcacc | gtgccttcca | ccaaggccat | cgggctggcg | gcccagaca | tcttgcataa | 180 |
| caacccgctc | agtcagagag | ccctctgcct | gtgcctggta | ctcctggccg | tgctcggctg | 240 |
| cagcatcatc | gtccagttca | ggtacatcaa | caaggcgctg | gagtgcctcg | actcctcggg | 300 |
| gttcggggcc | atctactacg | tcgtgtttac | cacgctgggt | ctgctggcct | cagccatcct | 360 |
| ttcccgggag | tgagcaacg | tgggcctggg | ggacttcttg | gggatggcct | gtggattcac | 420 |
| gaccgtctcc | gtggggattg | tccttatata | ggtgttcaaa | gagttcaatt | tcaaccttgg | 480 |
| ggagatgaac | aaatctaata | tgaaaacaga | ctagattgca | ataggagctt | ggatggttcg | 540 |
| aggaaatagg | attggaggtg | gtttctggcc | gtgattggat | gtgaagtaga | agaggtcctc | 600 |
| gatcatgggt | ttagaattga | ctggatagta | acagggtggt | tggtggatag | cggggagcat | 660 |
| ggctcagcac | cagagcagag | gcccagcagc | ctctgcagcc | caaacgtccc | aacggtgcct | 720 |
| ggaccatctc | ttctgatgag | acgaatctca | ttttcatttc | cattaacctg | gaagctttca | 780 |
| tgaatatttc | ttctttaaaa | cattttaaca | ttattttaac | agaaaaagat | gggctctttc | 840 |
| tggttaggtg | gtacatgata | gcagagatat | ttttacttag | attacttttg | gaatgagaga | 900 |
| ttgtgtcttg | aactctgcac | tgtacaggat | gtgtctgtag | ttgtgttagt | ttgcattaag | 960 |
| catgtatata | ttcaagtatg | tcattccaaat | aagaggcata | tcattgaatt | gtttttaatc | 1020 |
| ctctgacaag | ttgactcttc | gacccccacc | cccacccaag | acattttaat | agtaaataga | 1080 |
| gagagagaga | agagttaatg | aacatgaggt | agtgttcac | tgccaggatg | acttttcaat | 1140 |
| agctcaaata | aatttccagt | cttttatcac | ttgaattatt | aacttaattt | gactcttaat | 1200 |
| gtgtatatgt | tcttagatta | gaataatgca | acttcgagta | tgctttaata | tttcaatatt | 1260 |
| caagttacaa | atgtataagg | cagttagaaa | taatacagtc | acatgtcact | taatgatagg | 1320 |
| gaaacattct | gagaaatgca | ttgtaagggt | actttattgt | gtgaacatca | tggagtgcac | 1380 |
| ttatacaaac | ctagatggga | cacctatgac | ccaccagggc | cagatggtac | agcctgttgc | 1440 |
| tcctggggcca | cacacctgta | cagcatgtga | ctgcactgaa | taccgcaggc | aattgtaaca | 1500 |
| cagtgggtgag | tatttgtgtt | tacaaacata | ggaaagggtac | agtaaaacta | tggtattaca | 1560 |
| atgttatggg | accaccgtca | tgtaagtggg | atgtctttga | cagaaacatg | gttacgtggg | 1620 |
| tcattgactgt | atattcactg | gaagatagtc | aagactaaag | acacattaga | gcaaattgac | 1680 |
| ccctttaaca | tgtgattatt | gtccaattaa | agacagttga | tttaagtagc | aaaaaaaaaa | 1740 |
| aaaaaaa | | | | | | 1747 |

<210> 479

<211> 1251

<212> DNA

<213> Homo sapiens

<400> 479

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------|
| gacccacgcg | tccgagcaaa | cccaggaagg | tgtggcgctc | ccgcttcgcg | ccaagatggt | 60 |
| gctggtgctg | cgccatcctt | tgtgtgcccg | ggaaagggcg | ttccgggagc | cgggtcgggg | 120 |
| gctcctgact | cgactgggc | agcatgacgg | tgcgccggct | gtcactgctg | tgccgggacc | 180 |
| tctgggcgct | gtggctgctg | ctgaaggccg | gcgcagtacg | tggggcgcg | gcaggctctc | 240 |
| gcctccccg | aaggtgttgt | ggggcgacat | gcggggacgc | cgggcggggg | tggacgttct | 300 |
| gggcccagcc | ctgtcctcag | aggctgctgg | ggcagaagcc | cggggctggg | ggatgccggg | 360 |
| gatgggtgtt | gggtggtg | cctccgagac | cagaggagcc | ctgttccttg | gcagggaagg | 420 |
| tgtgcacggg | ccttgcccga | tggatggttt | agggccatgg | ccctgggggtc | cctggtgagc | 480 |
| agtggggccg | cctctgccct | tggcctgtga | gggactgtct | gtgctggtcc | cagaaggctg | 540 |
| ggatcacctt | tccactggct | cctttgttcg | aggtttttca | tagacaggct | atgtggacaa | 600 |
| atgagggcag | cgcccacgtc | tggctggtgg | aggggctgcg | gctcctcctt | ggaggggacg | 660 |
| cctggccact | gctgtcccca | caatggggcc | acccgtggtg | caaggcgtga | caagctgccc | 720 |
| tctctaggtg | agcaggactt | gggaggcccc | tggccaagcc | tgtggaccgc | gctgggcggc | 780 |
| ctctgtggtc | tcaggtttgg | gtgtgtttgg | tctggtcagg | gctcaggggc | tgctgggtcca | 840 |
| cactggcccc | atcctgacaa | ttggagcttt | ggggcaaggt | ccctggagaa | ggggctcacgt | 900 |
| cgggaggaaa | cagcctgggt | tttgttgatg | cttttctaa | aatggagtac | tcgttttcaa | 960 |
| gagatttgtc | ctaattatat | tttccagcgg | gtacttatgc | caagtattga | tgaataattc | 1020 |
| ataaaataag | catctttgtg | aatttttagt | aatcagacct | taactatcaa | cggcaatgaa | 1080 |
| tgaacatcta | aagtttccaa | ttttaagta | aagaactggc | tgggtacagc | agttcacgcc | 1140 |
| tgtaatccca | gcactttggg | aggccaaggc | tagaggatcg | cttgagccca | ggagtttgag | 1200 |
| atcagcctgg | gcaacatacc | aagacctcat | ctgttaaaaa | aaaaaaaaaa | a | 1251 |

<210> 480

<211> 1539

<212> DNA

<213> Homo sapiens

<400> 480

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|------|
| cgatggcccc | gcggccgctc | tagaaagtcc | cgtttttttt | tttttttttt | tttttttttt | 60 |
| tttttagagta | cgttctgcat | tttatttytg | caggcaacac | tttgctcacc | agcaagaaca | 120 |
| cagcccragg | aagggaccca | ataacctttc | aaaacscaaa | ctgctkcctg | cggtaggggc | 180 |
| ccagggtcct | ccacggagag | gacaggcatc | ttcctttccc | accaggaagg | agtcagcccc | 240 |
| gagcctctgc | tatgtgcaag | gcggtgtgca | agcaccggct | gcrgctyttt | gctgtctctt | 300 |
| ctttctcttt | ggggctgggc | tgggtgtgcg | ttctggtgct | gatgctttgg | cctgtgagggc | 360 |
| tgagcttggc | acctcgaccc | gttcaattac | agcaacgaag | aagccactgc | tgagtgtggt | 420 |
| ctcaggggag | gcccggaggc | agtgtctggc | acccgggaac | gtgctcaggc | ctcgggtggg | 480 |
| ccaggcaggc | agggcgggag | ctagcctgaa | ggcgccccgg | ttctgctgca | gcgcatctcg | 540 |
| caccacgtct | tcattctcct | cctggcagag | ggagcacgtg | gagtagacga | gccgctgcag | 600 |
| ggaagggaaa | gtgagcgctg | ggcacagggc | tcgctgctgg | aaccctgcca | gggcattgcag | 660 |
| acgcaccggg | ctaggtgtgc | ctgccccggg | ctcctccagc | tgtctgctcg | gcatacccca | 720 |
| gccactgcag | gaaggatcca | gcaggayrta | gtggacctca | ygrtagcgyg | gacyraggg | 780 |
| ggagaccggc | aggaagtcc | cctcagccag | ytcacagcar | gagacgccag | cccrggccag | 840 |
| cagcgtggcc | atggatgcca | gccgcttggc | atccagggtca | aaggcaaaga | tcttcccttg | 900 |
| gttcttcaga | agagcagcca | agtgactggt | cttattgcct | ggggcgggac | aggcatcgat | 960 |
| gacatgggag | cctggcgggg | ggtccagcag | catggctggg | agacagctgg | ccctgtcctg | 1020 |
| cagaatgagg | tgtccggccc | ggtacagtgg | gtgttcatgc | agatctgtct | gggcgggaaa | 1080 |
| caccagcagc | tccggcatca | aggggtccag | gagaaaatgc | ttccccttga | gggctcgtaa | 1140 |
| gtcatcgagg | ctggaagccc | gaccctgata | ggagaaacct | tgtctcttga | aataatcaac | 1200 |
| tacatcatcg | gagcaggtct | tgagagtgtt | cacacgcaca | aatcgaggca | gctggggaggc | 1260 |
| tggaccaggc | ctggatccca | cttccaacag | gtcctcattc | cggctcacac | cccgatgaac | 1320 |
| cttgagccga | gccaaactcag | ccttgagcct | cgcctggtgc | cggcccaaca | gagccttcca | 1380 |
| tcggccccca | ccccctcgaa | agccctttcc | caacaacaac | tcataacta | gcaccttggc | 1440 |
| caggtgcggc | cgctctagag | gatccctcga | ggggcccaag | cttacgcgtg | catgcgcagct | 1500 |
| catagctctc | tccctagagt | gagtcgaatg | aggttcata | | | 1539 |

<210> 481

<211> 1941

<212> DNA

<213> Homo sapiens

<400> 481

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| tcgaccacag | cgccgggggc | gttcctgggc | gtgagagggg | agccccaggg | gagctggggc | 60 |
| agcatgactg | gggtgataaa | tggccggaaa | tttggcgtgg | ccacactcaa | caccagcgtg | 120 |
| atgcaggagg | cacactccgg | ggtcagcagc | atccacagca | gcacccgcca | tgtcccagca | 180 |
| aacgtggggc | ctctgatgcg | gggtgctcgtg | gtcaccatcg | cccccatcta | ctggggccctg | 240 |
| gccagagaga | gtggggaagc | cctgaatggc | cactctctga | ctgggggagc | gttcgggcag | 300 |
| gagtcacacg | tggagtttgc | tacaggggag | ctgctcacga | tgaccaggt | ggccccgggt | 360 |
| ctggatcccg | atggcctcct | gctcctcgac | gtgggtgtca | atggcgttgt | ccccgagagc | 420 |
| ctggctgacg | cagatcttca | agtgcaggac | tttgaggagc | actacgtgca | aacagggcct | 480 |
| ggccagctgt | tcgtgggctc | cacacagcgc | ttcttccagg | gcggcctccc | ctcgttccta | 540 |
| cgctgcaacc | acagcatcca | gtacaacgcg | gcccggggcc | cccagcccca | gctgggtgcag | 600 |
| cacctgcggg | cctcagctat | cagctcggcc | tttgatccag | aggccgaggc | cctgcgcttc | 660 |
| cagctcgcta | cagccctgca | ggcggaggag | aacgaggtcg | gctgccccga | gggctttgag | 720 |
| ctggactccc | agggagcgtt | ttgtgtggat | gtggacaggt | gtgcgtggga | tgtctcacctc | 780 |
| tgccgagagg | gacagcgctg | tgtgaacctg | ctcgggtcct | accgctgcct | ccccgactgt | 840 |
| gggcctggct | tccgggtggc | tgatggggcc | ggctgtgaag | atgtggacga | atgcctggag | 900 |
| gggttggacg | actgtcacta | caaccagctc | tgcgagaaca | ccccaggcgg | tcaccgctgc | 960 |
| agctgcccc | ggggttaccg | gatgcagggc | cccagcctgc | cctgcctaga | tgtcaatgag | 1020 |
| tgccctgcagc | tgcccaaggc | ctgcgcctac | cagtgcacac | acctccaggg | cagctaccgc | 1080 |
| tgccctgtgcc | ccccaggcca | gacctcctt | cgcgacggca | aggcctgcac | ctcactggag | 1140 |
| cggaatggac | aaaatgtgac | caccgtcagc | caccgaggcc | ctctattgcc | ctggctgcgg | 1200 |
| ccttgggcct | cgatccccgg | tacctcctac | cacgcctggg | tctctctccg | tccgggtccc | 1260 |
| atggccctga | gcagtgtggg | ccgggcctgg | tgcctcctg | gtttcatcag | gcagaacgga | 1320 |
| gtctgcacag | accttgacga | gtgccgcgtg | aggaaacctgt | gtcagcacgc | ctgccgcaac | 1380 |
| actgagggca | gctaccagtg | cctgtgcccc | gccggctacc | gtctgctccc | cagcgggaag | 1440 |
| aactgccagg | acatcaacga | gtgcgaggag | gagagcatcg | agtgtggacc | cggccagatg | 1500 |
| tgcttcaaca | cccgtggcag | ctaccagtgt | gtggacacac | cctgtcctgc | cacctaccgg | 1560 |
| caggggccca | gccctgggac | gtgcttccgg | cgtgctcgc | aggactgcgg | cacgggcggc | 1620 |
| ccttctacgc | tgcagtaccg | gctgctgccg | ctgcccctgg | gcgtgcgcgc | ccaccacgac | 1680 |
| gtggcccggc | tcaccgcctt | ctccgaggtc | ggcgtccccg | ccaaccgcac | cgagctcagc | 1740 |
| atgctggagc | ccgacccccg | cagccccttc | gcgtgcgtc | cgctgcgcgc | gggccttggt | 1800 |
| gcgggtctaca | cccgtcgcgc | gctcaccgcg | gccggcctct | accggctcac | cgtgcgtgct | 1860 |
| gcggcaccgc | gccaccaaag | cgtcttcgtc | ttgtcctcgc | ccgtgtcccc | ctaccacctac | 1920 |
| taaaccgggag | agggcattgg | c | | | | 1941 |

<210> 482

<211> 1510

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (426)..(426)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (454)..(454)

<223> n equals a,t,g, or c

<400> 482

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| cacgagaaac | attctatctt | ttatcaaagt | tgtgattcat | aacttttggg | taccaaagga | 60 |
| atctaacgaa | ataaccataa | tcataaatcc | atacaggag | actgtgtgct | tctctgtgga | 120 |
| gccgtgtcaag | aagatattta | actatatgat | acatgtgaat | cgaacatca | tggatttcaa | 180 |
| actcttcctt | gtgtttgtgg | caggagtttt | tcttttctt | tatgcaagga | ccctggagtc | 240 |
| aaagccctac | tttctattac | tcctcgggaa | ctgtgctagg | tgttctaagt | acatagtctt | 300 |
| tgtcttgctg | ttgggtgaaa | gattcatccg | aagtatagca | ccttttgggg | ctctaattggt | 360 |
| tggttggttg | tttgccctcag | tttatattgt | atgccagttg | atggaagatc | tgaagtggct | 420 |
| gtggnttgaa | aacaggatat | atgtatcagg | ctangtcttg | atagttggat | ttttcagctt | 480 |

| | | | | | | |
|------------|------------|-------------|-------------|-------------|-------------|------|
| tgttggtt | tacaagcatg | ggcccccttg | acacgacagg | agcagaagtc | ttctgatgtg | 540 |
| gatgtgcga | ctcctctccc | tgggtctggg | ctatgctggg | gtggctgtgc | ctcagtttgc | 600 |
| ctatgcagcc | ataatcctcc | tcatgtcctc | ctggagctcg | cactacccac | tgagagcatg | 660 |
| cagttatatg | aggtggaaaa | tggagcagtg | gtttacatca | aaagagctgg | tggtgaaata | 720 |
| tcttacggaa | gacgagtaca | gggagcaagc | tgatgctgaa | acgaacagtg | ctctggagga | 780 |
| gctacgccgg | gcctgcccga | aacccgactt | tccctcatgg | ctggtcgtct | ccagactcca | 840 |
| cactcctagc | aaatttgtag | atgttggtct | tggaggaagc | cacttggtcac | ctgaagaaat | 900 |
| cagtctgcac | gaagagcagt | atggccttgg | gggtgccttc | ttggaagagc | agctctttaa | 960 |
| cccagtgact | gcctgacatg | cgaccttcaa | gttgacttca | ttctggacaa | ggaagtgggc | 1020 |
| aaagggcagg | attctattaa | agttaggcag | aactgttcta | gtgaacgggtg | gcaaaaacat | 1080 |
| ttgctgtgga | gaaaaacaag | tcagtctgga | aaggaaaacc | aacccatttt | gaagataact | 1140 |
| tagcattctt | ggtgacttct | gctacttatt | gtactgtagg | tggataccaa | aattctgtga | 1200 |
| cagccactac | cacttacctt | gaatgaaggc | tttcattagg | aacaggggaa | tggcggttgt | 1260 |
| cttaaggggc | tagtaagcat | gaacaggtgc | tttgtcgaca | ccaggggcact | aaatctgggtc | 1320 |
| ttaatccctt | gaacctgtgt | cagaagactc | tgcaataactc | ttcctatagt | tcgtcagtat | 1380 |
| aagtccttaa | agagacctga | gacatgctgg | accagtgttt | tccaaagtac | agctcacagg | 1440 |
| ctactaccaa | gtgttggtca | ataaagggtat | tctgagggtca | actaagattg | ataaaaaaaa | 1500 |
| aaaaaaaa | | | | | | 1510 |

<210> 483

<211> 805

<212> DNA

<213> Homo sapiens

<400> 483

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| ggcacgaggt | ccctaattgt | cttgtagcta | gccctagggg | gaccagggca | ggggaatcat | 60 |
| ggcgagaagc | gtaagggcct | gatgaagaag | gtgtgctggg | tgtgggctct | agcccacttg | 120 |
| gttttgtgtg | agaggtggct | gacagcaggt | tggttctgtg | atgtaggagt | tatccagccc | 180 |
| tgcaagggca | gtccctccag | tgtctgcaaa | gcccgaagat | gtctgcatcc | aaaatacaga | 240 |
| ataaaaagat | atggttacta | caagtactca | gtaagactga | taatctgtca | tcatcatcct | 300 |
| catgccctta | aagcagagct | aactgatgat | taatatatgc | ttctatgtta | acagtcttgg | 360 |
| actttattaa | tgggtgggtg | aagttaactt | aatgtatgta | tgcaaaactaa | aaagtgggtg | 420 |
| ccttttcatt | aatgacccaa | ccattattca | agagctatgt | ctagttaggg | acttcagact | 480 |
| tttgaaagaa | atgaagaaat | aatgccagat | acatgggctc | gcacttgga | tcccagctac | 540 |
| ttggggggacc | gaggtgggag | gaccgcttga | gcccaggagt | tcgagaccag | cctgggcaac | 600 |
| atagcgaaac | cctgcctcag | ttttaaaaaa | gaaaaaaaga | agtagtgaag | aaattggaaa | 660 |
| ggattctgag | aagaaatatg | caaggtggaa | aagagcctag | aaagaaagg | gacagatgct | 720 |
| gggatttggg | cgtcagaaga | gatattctagg | aaatagcatg | gcagccctca | agtactagct | 780 |
| ccacttaaaa | aaaaaaaaaa | aaaaa | | | | 805 |

<210> 484

<211> 1182

<212> DNA

<213> Homo sapiens

<400> 484

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|-----|
| ggcacgagcc | cccagcacat | ggaagccctg | ttacagtccc | tcgtgatagt | cttgcttggg | 60 |
| ttcaaatcct | tcttaagtga | agagctgggc | tctgaggttt | tgaacctact | gacaaaataa | 120 |
| cagtatgagt | tgctttcaaa | gaaccttcgc | aagaccagag | agttgtttgt | tcatggctta | 180 |
| cctggatcag | ggaagactat | cttggtctct | aggatcatgg | agaagatcag | gaatgtgttt | 240 |
| cactgtgaac | cggctaaccat | tctctacatc | tgtgaaaacc | agcccctgaa | gaagtgggtg | 300 |
| agtttcagca | agaaaaacat | ctgccagcca | gtgacccgga | aaaccttcat | gaaaaacaac | 360 |
| tttgaacaca | tccagcacat | tatcattgat | gacgctcaga | atttccgtac | tgaagatggg | 420 |
| gactgggatg | ggaaagcaaa | gttcatcact | cagacagcaa | gggatggccc | aggagtcttc | 480 |
| tggatcttct | tggactactt | tcagacctat | cacttgagtt | gcagtgcctc | ccccctccct | 540 |
| cagaccagta | tccaagagaa | gagatcaaca | gagtggtccg | caatgcaggt | ccaatagcta | 600 |
| attacctcaa | caagtaaatgc | agaagcccga | caaaatcctc | cacctaacct | ccccctggg | 660 |
| tccctgggtg | tgctctatga | acctaataatg | gctcaagggtg | tcccaggcaa | cttagagatt | 720 |
| attgaagact | tgaacttggg | ggagatactg | atctatgtag | cgaataaatg | ccgttttctc | 780 |
| ttgcgggaatg | gttattctcc | gaaggatatt | gctgtgcttt | tcaccaaagc | aagtgaagtg | 840 |
| gaaaaatata | aagacaggct | tctaacagca | atgaggaaga | gaaaactgtc | tcagctccat | 900 |

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gaggagtctg atctgttact acagatcggg gatgcgtcgg atgttctaac cgtcacatt    960
gtgttggaca gtgtctgtcg attttcaggc ctggaaagaa atatcgtgtt tggaatcaat    1020
ccaggagtag cccaccggc tggggcctac aatcttctgc tctgtttggc ttctagggca    1080
aaaagacatc tgtatattct gaaggcttct gtgtgacagg aaaccaagc ctaagaaca    1140
attaagtggg tctcatctct aaaaaaaaaa aaaaaaaaaa aa                      1182

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<210> 485

<211> 600

<212> DNA

<213> Homo sapiens

<400> 485

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agaactagtg atccccggg ctgcaggaat tcggcacgag gacctctgac catcaggctt    60
ctgggaacca taggtatac ccacaccaca gagcatcgat aaactatatt gatgtttctc    120
ttgctttcag aaagacagct tccaagattc aagcccagggt ggtgccggtc tttttttgga    180
ggtgctaatt aataatttaa cttcatctaa tgataatttt atcttgttgc agtttgtgga    240
tttatgatta tctcatccat ccggtgccta gtgttgggca tagagtgtgt ctctgctgtc    300
tgccagaatc tgctactggg agaatttccc cactggggaga gggaccagg aaatggcatg    360
gtcttagaag gtctcctgaa cacatttcct tgggagggt cctgttatct tcaaggttga    420
tggctttctg caatctctca agggctgttt tgccctggaaa caggacgatg gagacagaga    480
cctatcagct gtgggcatct caatatcagc ggaaatgggt atcaagaagt ctcagccagg    540
tgcagtgctt gcgcctgtaa tccaacact ttgggagggt gaggtaggta gatcactcga    600

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<210> 486

<211> 777

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (274)..(274)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (278)..(278)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (295)..(295)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (676)..(676)

<223> n equals a,t,g, or c

<400> 486

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ggcagagctc aggtaagarg caaaattact agaattattca ctctcactga aaatgagtaa    60
aaacctaaact tagatgaaaa tccttatctt gttcattttt attcctggcc ttttggttga    120
gaagaatggg ccagaccatg tgtgtgtgtg tatgtgtgtg cgtgtgtgtg tgtgtgcgca    180
cttgggttta tttatatgag ccggtaaaaat ttcgttcacc attaatattat gtttaattac    240
caacttctta aatgagaaca gtgagaattt tctncatngt taataatata ctggnacagt    300
catatatgca tcacgaagag aggattttcc cattgataat agattttcaa atacatcttc    360
ctgctttaag attttaatat atggatttat atataaaac tagttaagtc attggaaaag    420
caaactgtca wccttctctt atttgagawc tcaactttag aaagtctatg ttctcaacta    480
cagaaaaataa ttttttagacc agctaacttt cagatttctg cagtgttat tttctccag    540
ttgagggttg gtttttgttt gtttgtttgt ttgtttgttt ttcttgatta aaaagtaaga    600
atacggccag gcgcgatagc tcatgccttt aatcccagca ttttgggagg ccgaggagg    660
cagatcacct gaggtncagg agttcgagac cagcctggct aacatggtga aaccagttt    720

```

ctactaaaaa aaaaaaaaaa aaacttcgag ggggggtccc ggtaccta at cgctccct 777

<210> 487

<211> 1037

<212> DNA

<213> Homo sapiens

<400> 487

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|------|
| cggcacgagg | tgatacttct | gaagactgca | gggagaatcc | gttttccagc | ttttttcatc | 60 |
| caccagaggc | cacctgtatt | ccctatccca | caaccctagc | cccttctctc | atctttgaag | 120 |
| tggactat | catcccctgt | ttctatcatg | acagtgcctt | ctctcatatt | gacctcttg | 180 |
| ccttataaga | ttccttgtga | ttacactggg | tccacctgca | taatcaaggc | taatctctcc | 240 |
| atctggagat | cttaatatata | tcacatctac | aaagtccctt | tggccattga | agtaacatat | 300 |
| ttatatgtat | tcattattag | gatgtgggac | acttttgtca | gggacagga | tttttcagcc | 360 |
| tacctttttc | ttcacctttt | gccaccactc | tcagcctgtg | gtctcaattg | ccagccttta | 420 |
| cacttgctac | ccatttgtct | gggtagtcca | taccagtcct | caagactagc | ctcaggcatg | 480 |
| cctcttctgg | gaatacatcc | tcttacaggc | caggatatga | ctcatgggtg | catcctaata | 540 |
| gcacttcact | tatttctact | gtcaccacac | tgatctgtaa | ttacttgatt | tgtctgactc | 600 |
| ttctgggggc | ttgtaagcat | tctggcacag | agaactatga | cttactgggg | cttacatctc | 660 |
| ttgctaaca | cagtacctaa | aatttagtag | gcattccctc | ataaacatga | atgaatgaat | 720 |
| caaagaatga | ataaacattt | aggaaatgat | gttggtgtgg | tcaacttctt | tcctcatcac | 780 |
| tgtaaagat | aaaagaatgc | caagccaggt | tggtcagaca | gaagcaagca | ccacatccct | 840 |
| gagagagcag | cacatctggg | cagccatgtg | tgagaagtcg | gttgcatcc | ccatacacag | 900 |
| ttgtctttgc | agctgtactc | ttaaccactg | taaccacaga | agtggggaaa | caatagggtg | 960 |
| gggtgaagtg | aaaagaaaat | tttccaaaac | ttcatattatc | taataaatac | agatatttaa | 1020 |
| aaaaaaaaa | aaaaaac | | | | | 1037 |

<210> 488

<211> 727

<212> DNA

<213> Homo sapiens

<400> 488

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagaggggt | ttagtttatg | tctctaactt | tagcaaagct | gcattcctat | 60 |
| tggaatgcat | actggaaaca | gctctcattc | ctaccttta | agggctcttg | gaaagcagtg | 120 |
| tgacaaccaa | ggctactaaa | tggtgagatc | atcaagccat | tttaagttct | ttctcatggt | 180 |
| attcaccagc | accctgcagg | acgttgggca | cacatcacat | ccctcagctc | agccatccag | 240 |
| ccgtctcagt | gattcaccac | tcatttgctt | aattaataga | caggtttgat | cactttgtac | 300 |
| atggaaggca | ctgtgccagt | gaacaagcag | ttggaccag | ccctccagta | gggaatggac | 360 |
| agctgaaaat | ccatgagcaa | gaaagaagga | aaaagaaaga | gttctgagca | gccaaaccat | 420 |
| ttctcgatga | tttcagagcc | ttcattctga | gcatcagtta | tatgctctcc | agtgtaatga | 480 |
| ctttatagcc | aagcacagta | attgatatta | ctgtgaaggc | ccttaactta | tcaagaaatg | 540 |
| gttgaggccg | ggcacattgg | ctcatgccta | taatcccagc | acgtgggagg | ccgaggcagg | 600 |
| cagatcacct | aagcccagga | gttcaagccc | agcctgggca | acatgatgaa | agcccatctc | 660 |
| tacaaaaaaa | aaaaaaaaa | actcgagggg | gggcccggtg | cccaattcgc | cctatagtga | 720 |
| gtcgtat | | | | | | 727 |

<210> 489

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (553)..(553)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (560)..(560)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (589)..(589)

<223> n equals a,t,g, or c

<400> 489

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| gaattcggca | cgagcggcac | gagccgagat | cgttctgggg | ctgctgggtat | ggacgcttat | 60 |
| tgctggaact | gagtacttcc | gggtcccccgc | atcttgctgg | gtcatgtttg | tagctgtatt | 120 |
| ttactgggtc | ctcaccgtst | tcttcctcat | tatctacata | acaatgacct | acaccaggat | 180 |
| tccccagggtg | ccctggacaa | cagtgggcct | gtgctttaac | ggcagtgcc | tcgtcttgta | 240 |
| cctctctgcc | gctgttgtag | atgcattctc | cgtctccct | gagaaggaca | gtcacaactt | 300 |
| caacagctgg | gcgccctcat | cgttctttgc | cttcctgggc | accatctgct | acgctggaaa | 360 |
| tacatatctt | agttttawag | catggagawc | caggaccata | cagtgttata | ccattttgat | 420 |
| aattaaaagg | aaaaaaaaag | gaagactctc | actgtaaaaa | cagctgtagg | tataatgtat | 480 |
| attcccagag | aattgtattt | aactaattaa | tgttttttat | attcttaaat | ttgctcacia | 540 |
| attgtgggtt | gtnacaattn | aactgggtta | ctttatttgg | caagtgttnt | aggcttttaa | 600 |

<210> 490

<211> I242

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (288)..(288)

<223> n equals a,t,g, or c

<400> 490

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ttcgtatcca | ctaggatggc | tctaataaat | aacaaagtat | tgtcaaggat | gtagaaaaat | 60 |
| tggagccctc | ctgccttggg | gggagtgtaa | tatggtgcca | gatacaacct | ccatccctgaa | 120 |
| gctcatctgt | atgcttccctg | tttgtgtttt | taaactttta | ctatatcttt | atgtcctcat | 180 |
| aagaatatgt | actatcattt | gggtgtttta | agtgtacata | aatgctgtca | tcctgaacaa | 240 |
| atcctctcgc | taactgcac | tttaactcta | tactatattt | tcaagatntg | tccatgttga | 300 |
| tccacgtagc | tccttagttc | cctttaactg | ctataagata | ttctgttgcg | tcaatatatg | 360 |
| acaatttatg | catgctttgt | tgacaggtaa | ttggattttt | agtgttttgc | ctttacaaaa | 420 |
| atcactgcat | cttttgacac | tgctactttg | tgcatatgaa | ctgagggtaaa | attgctgggc | 480 |
| cttactgtaa | atatgttgtt | ttaattcact | ttgcgctgct | gtaacagaat | accatagact | 540 |
| gggtgcttat | aaagaaaaga | aatttatttc | tcatagttct | ggagaatggg | aattccaaga | 600 |
| tccatttcaca | ggttcgggtg | tctggggaar | actttcttca | cacatcctca | cttggcagaa | 660 |
| cggaaggggc | tgggttgatg | ctgtgtgaam | cctcttttat | aagggcctta | gtctcattcc | 720 |
| caaggaggag | ctctcataac | ctaatacct | cttaaggccc | ccccactcaa | tactatgaca | 780 |
| ttgaatttca | acatctgaat | tttagagggg | acactgcaaa | cctgtcatat | gtcttttatct | 840 |
| ttactatcac | taaattgtcc | aaagtgtattg | caacagtgtat | ttatatactc | aaccacacaga | 900 |
| gtataagaat | ttctcctttc | tagctgggca | cgggtggctca | cgccagtagt | cccagcactc | 960 |
| tgggaggccg | agatgggagg | atcacttgag | gccaggaggt | caagaccagc | ctggccaaca | 1020 |
| cagtgaacc | ccatctctgc | taaaaataga | aaaagttagc | tagctatggg | ggcgacaccc | 1080 |
| tgtaattccta | gctatttggg | gggctgaggg | aagagaattg | cttggacctg | ggaggctgag | 1140 |
| gtagcagtg | actgagatcg | taccattgca | ctccagcctg | ggtgacagag | cgagactctg | 1200 |
| tctcagaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaactcg | ta | | 1242 |

<210> 491

<211> 970

<212> DNA

<213> Homo sapiens

<400> 491

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctcgtgccga | attcggcacg | aggtgccag | gctctcaggg | cagagggtcc | agtgtgatca | 60 |
| ctttgcatgg | cctctctccc | ctcctgagct | tgtgccaggg | ccccagggct | gacctggaga | 120 |
| ggaaaawggc | agagggtgaa | gatgggggtg | ctgggttggg | gaccatcctg | gcccccttg | 180 |
| tcactgttgg | catctcttct | gcacagtggc | attgctggga | ggtgcttact | gtgcctattc | 240 |

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| aaggggctgg | cagccgcagc | ctcactgcag | atcagggact | tggcttcccc | gttgaccaca | 300 |
| gggtccaagaa | cctgcagggt | ccagcctccc | ccccatcccc | agtcttcccc | accctggccc | 360 |
| ggccctccag | gtgcagaaac | atgcaggccc | ctctccagga | ctgtgggagg | agtgtgtccc | 420 |
| tcagactggc | ctgtgtcctg | gctcctctta | ccacctcttc | cagaggttgt | cacctgcagc | 480 |
| tgccccagga | taaaggcaag | gccagagagg | actcctgaac | tcctgtgtgc | ctgggggtggc | 540 |
| agggggcaaac | atagccaact | ggtggcctga | gcggggccat | ggtgargaca | cccttggtgg | 600 |
| cttgtcccac | atcaagctgg | gargtgacac | tgaggatgca | ttagtctgca | gcgtatgata | 660 |
| aaaacggcat | ttcaggccag | gcgtgggtggc | tcattgcctgt | caccccagca | ccttgggagg | 720 |
| ccgagtgagg | cagatcacat | gaggtcagga | ctttgagacc | agcctggcca | acatggtgaa | 780 |
| aactcatctg | tactaaaaaa | acaaaaatta | tgtgggttgg | tgggtgtgtgc | ctgtaatccc | 840 |
| agctacttgg | gaggctgagg | caggagaatc | acttgaacct | gggaggcgga | ggctacaacg | 900 |
| agccgagatt | gcaccactgc | actccagcct | gatccgtctc | aaaaaaaaaa | aaaaaaaaaa | 960 |
| aaaaactcga | | | | | | 970 |

<210> 492

<211> 1388

<212> DNA

<213> Homo sapiens

<400> 492

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| ggcacgaggt | aagttgcaag | gtacacccac | gggtgattta | tcactcttac | aaagatgata | 60 |
| actaatgaag | accgcatcta | gaatgctctt | actggagatg | gtttacagag | catttttaaat | 120 |
| catcatactt | agatttatat | taatatttct | tttcaaacta | aattattcca | aactgtgccc | 180 |
| tgagatacca | tttggcctca | agttcttttc | tttcgtctgt | attaagggtg | aaataaaaaa | 240 |
| gactagtagg | aaaagaaggc | cttattttatg | aaggttgtct | atagctctga | gcttggtagc | 300 |
| tacataaaat | gagtaataac | ctaaataagt | aaaactaatg | aagatctaac | tagattactt | 360 |
| tgcttaatat | taacatttta | cccgccccc | gccgtgaaac | atttggcaga | tgttctgcag | 420 |
| gactcatgag | gacattgggtg | gctacagctg | cttctggcac | tgcccccca | acccccagt | 480 |
| gagggtgaact | tctttacaca | tccagcaagc | tttagttatc | ttcttctccc | atttgagata | 540 |
| actgtggcta | caagaatctc | agttaaatca | gatgtttaaa | ttaggtgcca | aaaaatctta | 600 |
| cagacactga | actaatactt | aaatcaagga | acacttcagt | tctccataaa | atctggtgac | 660 |
| attttccaaa | gaaacagagg | atctttgttt | cacaccctgt | gtactggaat | tgcaacagt | 720 |
| aggcatttcta | gctctcacat | gccaatgcga | gtggcattca | ttcttgctca | ctcatttctg | 780 |
| cttctcattg | tcacacttgg | aggctctttg | ggggtatgtt | tcagttgatc | tgagaaactg | 840 |
| gggtgttacca | atttactaga | gagtttctta | aaatgtatct | gaaacaaact | attaatgggc | 900 |
| attctgtggt | ggtaaaaacca | ggcaacgcct | ccctacacta | tctgtccttt | cagagctaag | 960 |
| aatctgttat | tttgaattgt | tcacgaagag | tgattctgac | tctgcttcag | tgacactttt | 1020 |
| acaaaccatc | gagcctcatc | aaaggagtga | gttgagctga | ggaattagag | taaagaatac | 1080 |
| aggtagtagt | ccgggcgtgg | tgctcacgcc | tgtaatccca | acattttggg | aggacaagga | 1140 |
| gggtggatca | cctgaggtca | ggagttcgag | accagcctga | ccaacatgga | gaaaccctgt | 1200 |
| ctttactaaa | aatacaaaat | tagctggacg | tggtggcaca | tgctgtgat | cacagctact | 1260 |
| caggaggctg | aggcaggaga | atcgcttgaa | ccaggaggc | ggaggttgtg | gtgagccgag | 1320 |
| atcacgtcac | tgactccag | cctgggcaac | aagagtgaat | ttccatctca | aaaaaaaaaa | 1380 |
| aaaaaaaa | | | | | | 1388 |

<210> 493

<211> 649

<212> DNA

<213> Homo sapiens

<400> 493

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ggcacaggga | agtgtcaagc | gggcgctccc | ccatctccgc | cgctattacc | actgaacccg | 60 |
| gaccccttac | ccagggtccag | ggccagccgc | catgacgaac | gtgtactcct | tggatgggat | 120 |
| tctggtgttt | ggtttgtctt | ttgtttgcac | ctgtgcctac | ttcaagaaag | tacctcgtct | 180 |
| caaaacctgg | ctgctatcag | agaagaaggg | tggttggggg | gtgttttaca | aagccgctgt | 240 |
| gatttgaacc | aggctgcatg | ctgctgtggc | aattgcttgt | gttgtaatgg | ccttttacgt | 300 |
| cctgtttata | aaatgaattc | caaagcacc | aagtcacaa | ctgccaacca | aggggacggg | 360 |
| ctgaagaac | ctgttgagag | cctgaaccca | gtgtaggaga | gttcagctga | aatcatcggt | 420 |
| cccaggatg | acaccacagc | atctgccctt | gctatatgtg | gggaaaactc | atggtcacga | 480 |
| acattattta | tgcttcaggg | gactacagaa | agccagcttc | ctttgatcta | tgtgtaaatc | 540 |
| agtccttggc | agagtgcata | taatgtccgg | ataaattaca | cccctcggtg | ataagattac | 600 |

atacctcctt cataaaaaacc tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa

649

<210> 494

<211> 1699

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (9)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1692)..(1692)

<223> n equals a,t,g, or c

<400> 494

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|------|
| ggcatcttnt | athtagcaca | atgtttttta | ggttttattca | tgttgtagca | aggtacgcaa | 60 |
| ttgtttttca | tttaagaaa | aagtctcaat | gctattacaa | ttttccatat | tctttgcacc | 120 |
| tggtggtctgt | ctccctaaat | atagcccctt | tatgaaggag | gaatgcaaag | ctgatccaac | 180 |
| tagagactac | aaattccttt | atatttatat | agaaaggggc | acatagtaat | gaattggaag | 240 |
| ccatatccaa | gctagaatca | tctagattta | gtgagattga | ctagtgcac | ccaatttttt | 300 |
| gcactcatcc | cctgtccatc | aggtacctgg | aaatgattri | aawgattttg | aactaggtta | 360 |
| ctggtataat | catactgctg | ttgagattag | caggcaaatt | accaagttag | ttttttattg | 420 |
| gagggggaga | ggtcaatgtg | tgaggggtga | tagtggagac | tggggaccag | gctgacaaag | 480 |
| atgaattggt | ttaggttagt | atgactttga | ggtaatggga | taagtgagt | aaaatgactg | 540 |
| gttggcggtg | gagatgggat | ggagatggag | cttgaggaaa | aagaatagca | ctagtaaatg | 600 |
| gatttagcta | gacaaaggag | atttacccta | ttccatttag | cacagtgagg | agaggctaga | 660 |
| cagctaggat | gcaataaaaa | aaattttaat | gagaaatgtg | tggtgtagat | taattttatt | 720 |
| aatctcaagt | tatagattaa | aaaatttaag | taccacataa | atgccatttg | cctttgctaa | 780 |
| tgttacattt | ttatgaagaa | ggagccttgc | ataaagaatg | atataatgga | cttttgggac | 840 |
| ttgagggaga | agcttgggag | gggggggtaaa | ggataaaaga | catattgggt | gctgtgtgta | 900 |
| cactgcttgg | gtgacaagt | gactaaaatc | tcagaaatca | ccactaaaga | acttatctac | 960 |
| ataacccaaa | atcacctgta | ccccagaaac | tattgaaata | aaaaaaaaga | aggggacttg | 1020 |
| gacagatagc | cgtattcttt | gccaaattat | agttacattc | tgctcatggg | ggattaggag | 1080 |
| gttcaatgga | agaaaggccc | cactcagctt | tctcccctct | taaaatgttg | ccttgtaaat | 1140 |
| tagggaattt | tgcataaagc | tctgaccttt | acttccaagg | cctttactga | gaatgggttt | 1200 |
| ggatacttgg | agatagatcc | tgactcccta | tccctcctag | atctttattt | atcctatttg | 1260 |
| gaacccaggg | aaatggcctt | aaagctgatg | aaccacaggg | tgtccaagtc | atggagctat | 1320 |
| tgaggttctc | cccaagtatc | ttttaaatg | ctgcatttgg | gatgggcgca | gtggcttaca | 1380 |
| cctgaaatcc | cagcactttg | ggaggctaag | ttgggaggat | tgcttgggtc | tgaggagtta | 1440 |
| aggccagcct | gggctagatg | gtgagcctct | gtctctattt | aagaaaatta | gaaattagcc | 1500 |
| aggcatgggt | acacaccagc | tacttataat | gctgaggcag | gaggatcact | tgagcccagg | 1560 |
| agtttgccgc | agacagtggg | ctatgattgt | gccactgtac | tccagcctgg | gtgacagagc | 1620 |
| aagaccctgt | ctcttattta | aaaaaaaaaa | aaaaaaaaaa | actcgagggg | gggcccgtac | 1680 |
| ccaatcgcct | tncatgatg | | | | | 1699 |

<210> 495

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (424)..(424)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (430)..(431)

<223> n equals a,t,g, or c

<400> 495

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| cggccgctct | agaactagtg | gatcccccg | gctgcaggaa | ttcggcacga | ggcgggaagg | 60 |
| cttattccaa | ggtaagagg | gctgtgtgaa | ggggcagtg | gatggaatg | ggggtggcat | 120 |
| gggacaggca | caagggaagc | ctccagcccc | ttttctgcca | caagcaagag | gcactcagcc | 180 |
| ctacctgaga | tgtgttattt | tttagaaaata | tctttattga | tggtctttgc | actcaatata | 240 |
| aaggcagcat | atggttgttg | caatataaat | ggtagaag | tccacagagc | aaaagggcca | 300 |
| gtttctgtcc | cctttcctct | ctccaggcct | ctttctggga | ccccattatt | ggatagatta | 360 |
| agacctttcc | agaccttgta | aaaaaaaaaa | aaaaaaactc | ggggggggsc | ccggaaacca | 420 |
| attngcccn | nna | | | | | 433 |

<210> 496

<211> 1537

<212> DNA

<213> Homo sapiens

<400> 496

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| atcatatagg | aaacggtagc | ctgcagtacc | ggctccggaat | tcccgggtcg | acccacgcgt | 60 |
| ccggagcagc | aagagatttg | tcttggggat | ccagaaaacc | atgataccct | actgaacacc | 120 |
| gaatcccctg | gaagcccaca | gagacagaga | cagcaagaga | agcagagata | aatacactca | 180 |
| cgccaggagc | tcgctcgctc | tctctctctc | tctctcactc | ctcccctccct | ctctctctgc | 240 |
| ctgtcctagt | cctctagtcc | tcaaattccc | agtccccctg | accccttccct | gggacactat | 300 |
| gttgttctcc | gccctcctgc | tggagggtgat | ttggatcctg | gctgcagatg | ggggtcaaca | 360 |
| ctggacgtat | gagggccccc | atgggtcagga | ccattggcca | gcctcttacc | ctgagtgtgg | 420 |
| aaacaatgac | cagtcgcccc | tcgatattca | gacagacagt | gtgacatttg | accttgattt | 480 |
| gcctgctctg | cagccccacg | gatatgacca | gcctggcacc | gagcctttgg | acctgcacaa | 540 |
| caatggccac | acagtgcac | tctctctgcc | ctctaccctg | tatctgggtg | gacttccccg | 600 |
| aaaatatgta | gctgcccagc | tccacctgca | ctgggggtcag | aaaggatccc | caggggggtc | 660 |
| agaacaccag | atcaacagtg | aagccacatt | tgcagagctc | cacattgtac | attatgactc | 720 |
| tgattcctat | gacagcttga | gtgaggctgc | tgagaggcct | cagggcctgg | ctgtcctggg | 780 |
| cacctaatt | gagctggaaa | agcttcagg | gacattgttc | tccacagaag | aggagccctc | 840 |
| taagcttctg | gtacagaact | accgagccct | tcagcctctc | aatcagcgca | tggtctttgc | 900 |
| ttctttctac | caagcaggat | cctcgtatac | cacagggtgaa | atgctgagtc | taggtgtagg | 960 |
| aatcttggtt | ggctgtctct | gccttctcct | ggctgtttat | ttcattgcta | gaaagattcg | 1020 |
| gaagaagagg | ctggaaaacc | gaaagagtgt | ggctttcacc | tcagcacaag | ccacgactga | 1080 |
| ggcataaatt | ccttctcaga | taccatggat | gtggatgact | tcccttcacg | cctatcagga | 1140 |
| agcctctaaa | atgggggtgta | ggatctggcc | agaaacactg | taggagtagt | aagcagatgt | 1200 |
| cctccttccc | ctggacatct | cctagagagg | aatggaccca | ggctgtcatt | ccaggaagaa | 1260 |
| ctgcagagcc | ttcagcctct | ccaaacatgt | aggaggaaat | gaggaaatcg | ctgtgtgtgt | 1320 |
| aatgcagaga | acaaactctg | tttagttgca | ggggaagttt | gggatatacc | ccaaagtccct | 1380 |
| ctacccctct | acttttatgg | cccttccctc | agatatactg | cgggatctct | ccttaggata | 1440 |
| aagagttgct | gttgaagttg | tatatatttt | atcaatatat | ttggaaatta | aagtttctga | 1500 |
| ctttaaaaaa | aaaaaaaaaa | aaaaaaactc | aggggggg | | | 1537 |

<210> 497

<211> 1782

<212> DNA

<213> Homo sapiens

<400> 497

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgccgagcct | ctttggtagc | aggaggctgg | aagaaaggac | agaagtagct | ctggctgtga | 60 |
| tggggatctt | actgggcctg | ctactcctgg | ggcacctaac | agtggacact | tatggccgtc | 120 |
| ccatcctgga | agtgccagag | agtgtaacag | gaccttgga | aggggatgtg | aatcttccct | 180 |
| gcacctatga | ccccctgcaa | ggctacaccc | aagtcttgg | gaagtggctg | gtacaacgtg | 240 |
| gtcagacccc | tgtcaccatc | tttctacgtg | actcttctgg | agaccatata | cagcaggcaa | 300 |
| agtaccaggg | ccgcctgcat | gtgagccaca | aggttccagg | agatgtatcc | ctccaattga | 360 |
| gcaccctgga | gatggatgac | cggagccact | acacgtgtga | agtcacctgg | cagactcctg | 420 |
| atggcaacca | agtcgtgaga | gataagatta | ctgagctccg | tgtccagaaa | ctctctgtct | 480 |
| ccaagccccc | agtgacaact | ggcagcggtt | atggcttcac | ggtgccccag | ggaatgagga | 540 |

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|------|
| ttagccttca | atgccaggct | cggggttctc | ctcccatcag | ttatatatttg | tataagcaac | 600 |
| agactaataa | ccaggaaccc | atcaaagtag | caaccctaag | taccttactc | ttcaagcctg | 660 |
| cggtgatagc | cgactcaggc | tcctatttct | gcaactgcaa | gggccagggt | ggctctgagc | 720 |
| agcacagcga | cattgtgaag | tttgtggtca | aagactcctc | aaagctactc | aagaccaaga | 780 |
| ctgaggcacc | tacaaccatg | acataccctc | tgaagcaac | atctacagtg | aagcagtcct | 840 |
| gggactggac | cactgacatg | gatggctacc | ttggagagac | cagtgtctgg | ccaggaaaga | 900 |
| gcctgcctgt | ctttgccatc | atcctcatca | tctccttggt | ctgtatgggt | gtttttacca | 960 |
| tggcctatat | catgctctgt | cggaagacat | cccaacaaga | gcatgtctac | gaagcagcca | 1020 |
| gggcacatgc | cagagaggcc | aacgactctg | gagaaacat | gagggtggcc | atcttcgcaa | 1080 |
| gtggctgctc | cagtgtgag | ccaacttccc | agaatctggg | caacaactac | tctgatgagc | 1140 |
| cctgcatagg | acaggagtac | cagatcatcg | cccagatcaa | tggcaactac | gcccgcctgc | 1200 |
| tggacacagt | tcctctggat | tatgagtttc | tggccactga | gggcaaaagt | gtctgttaaa | 1260 |
| aatgccccat | tagggcagga | tctgtgaca | taattgccta | gtcagtcctt | gccttctgca | 1320 |
| tggccttctt | ccctgctacc | tctcttctg | gatagcccaa | agtgtccgcc | taccaacact | 1380 |
| ggagccgctg | ggagtcaactg | gctttgccct | ggaatttgcc | agatgcatct | caagtaagcc | 1440 |
| agctgctgga | tttggtctg | ggcccttcta | gtatctctgc | cgggggcttc | tggtactcct | 1500 |
| ctctaaatac | cagaggggaag | atgcccatag | cactaggact | tggtcatcat | gcctacagac | 1560 |
| actattcaac | tttggcatct | tggcaccaga | agacccgagg | gaggctcagc | tctgccagct | 1620 |
| cagaggacca | gctatatcca | ggatcatttc | tctttcttca | ggccagaca | gcttttaatt | 1680 |
| gaaattgtta | tttcacaggc | cagggttcag | ttctgctcct | ccactataag | tctaattgttc | 1740 |
| tgactctctc | ctggtgctca | ataaatatct | aatcataaca | gc | | 1782 |

<210> 498

<211> 574

<212> DNA

<213> Homo sapiens

<400> 498

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| tagtagagcg | cgtgtataga | ggcagagagg | agtgaagtcc | acagttcctc | tcctccaaga | 60 |
| gcctgccgac | catgcccgcg | ggcgtgccca | tgtccacctc | cctgaaaatg | ttcgagacca | 120 |
| gtctcctggc | catgtgcgca | ggggcagaag | tggtgcacag | gtactaccga | ccggacctga | 180 |
| caatacctga | aattccacca | aagcgtggag | aactcaaaac | ggagcttttg | ggactgaaag | 240 |
| aaagaaaaca | caaacctcaa | gtttctcaac | aggaggaact | taaataacta | tgccaagaat | 300 |
| tctgtgaaca | atataagtct | taaatatgta | ttctttaatt | tattgcatca | aactacttgt | 360 |
| ccttaagcac | ttagtctaat | gctaactgca | agaggagggtg | ctcagtggat | gtttagccga | 420 |
| tacgttgaaa | tttaattacg | gtttgattga | tatttcttga | aaactgccaa | agcacatctc | 480 |
| atcaaaccat | ttcatgaata | tggtttgtaa | gatgttttagt | cttgaatata | acgcgaaata | 540 |
| gaatatttgt | aagtctacta | taaaaaaaaa | aaaa | | | 574 |

<210> 499

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 499

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| ngaactagta | tattcacctg | ctatgaggcc | gcctcacagg | aaggctgggt | gttcctcatg | 60 |
| tacagagcaa | ttgacagctt | tcccgtttg | cgttcctact | tctatttcat | cactctcatt | 120 |
| ttcttctctg | cctggcttgt | gaagaacgtg | tttattgctg | ttatcattga | aacatttgca | 180 |
| gaaatcagag | tacagtttca | acaaatgtgg | ggatcgagaa | gcagcactac | ctcaacagcc | 240 |
| accacccaga | tgtttcatga | agatgctgct | ggaggttggc | agctggtagc | tgtggatgtc | 300 |
| aacaagcccc | agggacgcgc | cccagcctgc | ctccagggtgc | agtacaatga | catttttaaa | 360 |
| aatcgcccg | caaaggtctt | tgaattttat | ttcatccaag | aaaatccaca | gctctttaag | 420 |
| ctctagattt | gtccaaattt | aaaatcctga | agttagagat | ggtatttcac | tccttctct | 480 |
| attcccagga | cctagctttt | tttttttaac | atacacaata | gggatttgat | aagtttctga | 540 |
| tggctgcagg | catgtaagag | catttcagtg | gtattgaatc | aatgaagaat | tttgttgaca | 600 |
| tgtgaaatct | tataaaaaata | ttctttaccg | aaggactgag | ttatgtggca | gtgggtacat | 660 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcattgtttc | atccctcccc | tagtaactgg | gataaatatg | ttgatacata | gtctctctgt | 720 |
| ttttctgcat | ttggaagctt | tcagaggaac | ataatgtaga | gggtgttctt | tagcaaagt | 780 |
| cactgatagc | aaaca | | | | | 795 |

<210> 500

<211> 1742

<212> DNA

<213> Homo sapiens

<400> 500

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| ggcacgagct | cgtgccgctt | tgtagtctag | ggagtttaat | taaagtaagt | ggagacaaaa | 60 |
| gtactctttt | gagagctgtc | atttctctta | gtgtgacgct | attaataatg | tagtgtaatg | 120 |
| ctattttgga | agtttggttc | tttctctttc | ttttgtcttc | ctctgactct | tttctgtatt | 180 |
| ctaaatgaaa | ggggaataat | gcacttagag | gggggcactc | tcctaaattc | actgtctcat | 240 |
| gtacgacatt | atctccgact | tcggctctca | tgttttgaaa | aaatacctct | tcacgcctct | 300 |
| atTTTTattt | ttcttcttct | tttattgtga | atctctttta | ccaaaaacat | ttgtagggtt | 360 |
| cttcacaaag | atTTTTtttt | tcaatcagga | tgaaaactag | atcatgatgt | gaccatttca | 420 |
| ctgtgagtgt | aaactccctt | tttgacagct | ccattagatc | tgccagggtta | taaatcttca | 480 |
| tatttctgac | ttgccttgaa | atcagaaaag | gttttcatta | tgctagtctc | tgtgagcaac | 540 |
| aagcatgaag | gaaggcatgg | caggatcat | agcccttttg | atgaacttac | ctgtttcaac | 600 |
| tcagtgccag | ggcagaacat | ttactgctaa | ccctgatggg | tcaactttga | ttgcaaatta | 660 |
| tgtgtggtac | atTTTgaatt | taaagaatgt | ttctgagatt | attctacgat | cacttgtcat | 720 |
| ttttatgtgt | gcagtaaatgt | gttgtgtata | acttggattt | caacaatatc | cattgtttga | 780 |
| aagttagaaa | atattctaag | aatactaatt | atcttgctca | ataatcatt | taagtacaac | 840 |
| gtgcacttga | ttatggtgaa | tatttttaag | taaaattata | tatttaagggt | gtgctacctc | 900 |
| taattttatt | gtcatacaaa | aagcagatta | ttgaacatgt | taatgtaaat | tgtactttta | 960 |
| atTTTTtcca | gtactctaga | acatgtgtaa | ggttaaaaga | atTTaaatta | cccaggTTTT | 1020 |
| tctTTTTaca | taataaataa | gaagaaatca | caaaggaagc | agatattata | ttgtTTTTaa | 1080 |
| tatacacatg | aaattgtttg | actttatttt | gagacctcac | acaagtataa | acatggcagt | 1140 |
| gggtgtgtatg | atcaaagtaa | gaaattaaag | agttaccggt | tctttataaa | ccagaagtcc | 1200 |
| attgactttt | aataatgctg | tctcaaatat | ttgatagtaa | attgtggaaa | taatcaaaagc | 1260 |
| tgagcctatg | ggactgtact | ttgtagtact | gtttaaattta | ataactctaa | taatccctta | 1320 |
| agaatattag | gaaaaatagg | ccgggtgcag | tactcacgcc | tgtaatccca | gcactttggg | 1380 |
| aggccgagga | gggcggtaca | cctgaggtca | ggagttcaag | accatcctgg | ccaacatggt | 1440 |
| gaaaacccat | ccctacaaaa | acacaataat | taggcaggca | tgatggtgag | tgcctataat | 1500 |
| cccagctatt | caggaggctg | aggcgggaga | atctcttgaa | cccaggaggc | ggaggttgca | 1560 |
| gtgagccaag | attgcgccat | tacactccag | cctgggcgac | agagcgagac | tccctctcaa | 1620 |
| aaagaaaaag | aaaaaagaaa | aaagaatatt | aggaaaaata | tcttaatgca | aaatatatta | 1680 |
| atagtaatc | tgccaacact | gagatgtact | ataaggccaa | gaagaaaaaa | aaaaaaaaaa | 1740 |
| aa | | | | | | 1742 |

<210> 501

<211> 1443

<212> DNA

<213> Homo sapiens

<400> 501

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|-----|
| ggaaccattg | gcctatatgt | ggttggatct | attattatga | gtgttgttgt | ttttgtgcca | 60 |
| ggaaacattg | tagggaagta | tggaacacga | atttgccctg | cttttttctt | aagcatacca | 120 |
| tatacttgct | ttcctgtctg | ggctgggttc | agaatctata | atcagccatc | agaaaattat | 180 |
| aattaccctt | caaaggttat | tcaagaagcc | caagcgaaag | acctgctgag | aagaccattt | 240 |
| gatttaattg | tggttgtgtg | tctctctctg | gcaactggat | tttgctgtgt | cagaggtttg | 300 |
| attgcttttg | attgcccatc | tgagctctgc | cgattatata | cgcaatttca | agagccctat | 360 |
| ctaaaggatc | ctgctgctta | tcctaaaaat | cagatgctgg | catatatgtt | ctattctgtt | 420 |
| ccttactttg | tgactgcact | gtatggctta | gtggttctctg | gatgttctctg | gatgcctgac | 480 |
| atcacattga | tacatgctgg | aggtctggct | caggctcagt | ttcttcacat | tggtgcatct | 540 |
| cttcatgcta | gaactgctta | tgtctacaga | gtccctgaag | aagcaaaaaat | ccttttttta | 600 |
| gcattaaaca | tagcatatgg | agttcttctt | cagctcttgg | cctatcgttg | tatctacaaa | 660 |
| ccagagttct | tcataaaaaac | aaaggcagaa | gaaaaagtgg | aataaaaaata | ttacttcatg | 720 |
| ttcctctctt | ctaaattact | aacttttgtt | atactggtac | tgatattttg | tcccatttca | 780 |
| ctctcttctc | atacgtgagt | acttaagaat | atgtacattc | ttgctctgca | ctgtatgtgt | 840 |

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|------|
| gagctatatg | gtattgtgta | aatttttttt | gaaggaaaat | ggaaattctt | gagaaacagt | 900 |
| ttgttttaaag | aaatatattc | aaaatcattt | gtgaataaac | ttgatcatcc | atctcaatat | 960 |
| tgtttgacat | ataaaataat | tataagtgtg | aaaaattaca | atttagtgcc | aacagtagtg | 1020 |
| agcatgaaat | gaaactattc | aaaagagaat | atggcctgtg | catattaaaa | aattcaaaac | 1080 |
| agtgaatgca | gactggagga | gtaacttttg | caaataagat | gaatatgctt | cattattaaa | 1140 |
| ctcaatataa | aaggcaaatc | atcagaatat | ttttaaatgt | tgtttgaaaa | atgttttccc | 1200 |
| aaggaaagtt | tattatttgc | tgctgtttca | agaaaattac | ttttactaaa | tttttttggtg | 1260 |
| tgaattttaaa | cagctaaata | gggatcagta | actttatctc | tatccttaat | gaacatttgt | 1320 |
| tttatttggtg | gctggaaaata | tttctattgt | atttctgtgt | atatttttaa | taaaattatt | 1380 |
| tttggcctct | taaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaactc | 1440 |
| gag | | | | | | 1443 |

<210> 502

<211> 462

<212> DNA

<213> Homo sapiens

<400> 502

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagctgggc | tcaagtgatc | ctcctgccga | ggcctcccaa | attgctggga | 60 |
| ctgcagctgt | gagccaccat | gccagcctt | aacttggttt | taagacctct | gatttgcctt | 120 |
| gcctcaatta | cctcctttct | tattttcttt | cctttgttga | ctctcatact | ctgttctcct | 180 |
| aattctcccc | cttttccact | ccctgccac | cctgaaagac | acacacacac | acaataagtg | 240 |
| ggtggagtaa | gaagtcaacg | gagttggata | taagcattcc | tgcttttctg | acatctccag | 300 |
| tgtcttggtg | aacaaggatt | ctagaatgag | ggctcctcat | tatgcttctt | ttcaacattt | 360 |
| tttctctgtg | ttacttaagc | tttcacccca | agcatgtttg | acagagagcc | agtgcattcc | 420 |
| ccttactttt | tacaaaaata | aaaaaaaaaa | aaaaaaactc | ga | | 462 |

<210> 503

<211> 2541

<212> DNA

<213> Homo sapiens

<400> 503

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------|
| tggggaaaacg | gtccctctag | aactagtggg | tccccggggc | tgcaggaatt | cggcacgagg | 60 |
| agaaggtcac | taccatcatg | gagatggctt | ccaagatgaa | agacacaggg | ttcatcgtgt | 120 |
| ttgctgtgct | tctgctgggt | tcatgcctca | tcctcatctt | tgtcattgcc | ccacgttacg | 180 |
| ggcaaaggaa | tatcctcatc | tacatcatca | tctgctctgt | gatcggggcc | ttctctgtgg | 240 |
| ctgctgtcaa | ggggctgggc | atcaccatca | agaacttctt | ccaggggctg | ccagttgtcc | 300 |
| ggcacccgct | cccctacatc | ctgtccctca | tcctggcact | gtccctcagc | actcaggtca | 360 |
| acttctctca | cagagcactg | gacattttca | acacttccct | ggtgttcccc | atctactacg | 420 |
| tgttcttcac | cacggtggtc | gttacctcgt | ccatcatcct | cttcaaggag | tggtacagca | 480 |
| tgtctgctgt | ggacattgca | ggcaccctct | cgggctttgt | caccatcatc | ttgggcgtgt | 540 |
| tcatgctgca | tgttttcaaa | gacctggaca | tcagctgcgc | cagcttgccc | cacatgcaca | 600 |
| aaaaccacc | cccttctccc | gccccggaac | ccactgtcat | tagactggaa | gacaagaacg | 660 |
| tccttgtgga | caatatagaa | cttgccagca | cctcatcacc | agaagagaaa | cccaaagtat | 720 |
| ttataatcca | ttcctgaagc | ttggaatatg | tgagtggag | gatgagtcg | atggtacagc | 780 |
| ctgccctccc | aatttcaaaa | ccacctgggt | attttccagt | gcaactgtta | ccaatgggct | 840 |
| ctcttttctt | gagaagttca | tttatacctc | atcactgttt | ccaggagaaa | aatctttacc | 900 |
| caaatagcaa | tgggtggcaga | acttcctgga | aacagattca | gtgaccaa | acccaagttt | 960 |
| acatcagtg | ctgcagggtc | cctggacctt | ccttctcatt | cattctttcg | gtgccatctc | 1020 |
| tatgccgttg | ggaagaagat | ggagtctgac | ccactgaatg | tagcacagtc | caaggacttc | 1080 |
| tctaagatat | tgggtcattgg | aagtctcttc | acaccaattc | tcctcctgag | acggaatctc | 1140 |
| cgttggtgtt | gttggtgttg | ttttctagcc | caaggatgac | atagagctgg | ctcccagagg | 1200 |
| cccacagagc | aattggccat | gcctccctat | ccagagctga | cagggacaca | accagtgtaa | 1260 |
| aatatcctgt | tgcttttgtc | acttctctct | tggaggcaga | agcaagacct | cagctgacct | 1320 |
| tcttactgtg | aaagccactt | gatgtctcag | ggaaaaattt | caaccagctc | attccccgag | 1380 |
| cactccagcc | tggcagtcag | cacctcgga | tccaccagct | ccatcccacc | atcaccctct | 1440 |
| ccccctctac | ttacatccta | aggagtcggt | cactgagaca | taaaggcagt | aatcgagaa | 1500 |
| ctggaaacaa | aacaataaca | gagccacagc | caaactctgg | tggccaaacc | cagtgttgca | 1560 |
| ttttgtctta | ctctgaaaga | agaacagcaa | attcactgct | tcaaagtggc | ctggctgcca | 1620 |
| agctagaatt | tggcagaacg | cacttttcta | ttcctcaagg | agtcaaccaa | cctatgatct | 1680 |

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|------|
| ggggagggtg | gaagagggatg | aggagcaaaag | ttgggatttg | gcagaaggca | gtcccaggct | 1740 |
| ctctggatac | taggggctaa | cttttgtgtt | gactctgggtg | ctcatctggg | aacttaggag | 1800 |
| aaacgagctc | aggggtaatt | tctgggttgc | agccttaaag | gcttggacag | ctgtgaatct | 1860 |
| caatggccaa | ctggagggtgc | agacttggca | tggggtgcat | tctagctgtt | gaccagattg | 1920 |
| ctaccgagtc | ccytccctcca | ctgatgagct | gcccacactg | ggaagcagca | tgccctgact | 1980 |
| gttccaacac | cacctgctat | ggggagtacc | tttgggtccc | tcacatttgg | ccagaggata | 2040 |
| caaaaaacca | gagcagctgg | agagggagat | aattactatt | ccttcccttc | ccatctcctt | 2100 |
| tctagccaca | agagtgtggg | ggttggagaa | gaaccattag | aaagggaat | tagtgggctg | 2160 |
| gtgtatctgg | aaagagggaa | gacttgatcc | tcagccccga | ggttgggtgca | gggcctcccc | 2220 |
| tgtgtgactc | tacctgcact | ctgtgtttat | atcctgtgcc | ctaagtgggc | caagcccagg | 2280 |
| taaattcctg | ctggccttgg | aactccaagg | tttggctgac | cagcagactg | gctccctgac | 2340 |
| tcttcagcct | caaatcccca | gtttttgatg | aatgtggatt | tctgtctgta | attaaaagca | 2400 |
| atgcaacaag | ttggctcttg | agaatggcag | taaactgagg | gccctaagag | tgtgtgtctg | 2460 |
| agggccaaga | ataaagatta | cagattatat | ttacttgaaa | aaaaaaaaaa | aaaaaatttc | 2520 |
| ctgcggccgc | aagggaattc | a | | | | 2541 |

<210> 504

<211> 561

<212> DNA

<213> Homo sapiens

<400> 504

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| agggatcccc | cgggctgcag | gaattcggca | cgagtctact | ctcaaaaaat | tcagaaacat | 60 |
| atatttgtgt | gcatttgcac | gtgcaacagt | acacacaaac | atacataaag | agagcaattg | 120 |
| ataaggcaaa | taaggttaaca | tttaacaata | atctgatata | cataaataga | gaaagagcaa | 180 |
| ttgataaagt | aaatgaggtg | aaatttaaca | ataatctgag | caaaagggtat | atgtgttttc | 240 |
| tttgagacag | tctgattctt | gcaacttatt | ctgtaagtgt | gaacttattt | ccaaacatga | 300 |
| ttgaaaaaaa | accccgcaact | tggcaacttc | ttctcttttt | cagcctagaa | atgtctgtgt | 360 |
| taagtgtgtt | tttatttatt | gttgttgttt | gttgttattg | ttgttttgtt | gccaggctcc | 420 |
| aactcacaaa | atacaggttt | aaaaactgcg | ttgttatttt | tagagatttg | tgataatata | 480 |
| acttggtata | aaattttatt | ctcaataaat | ataattttct | tactaaaaaa | aaaaaaaaaa | 540 |
| aaaaaaaaaa | aaaaaactcg | a | | | | 561 |

<210> 505

<211> 809

<212> DNA

<213> Homo sapiens

<400> 505

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| ggcacgagga | gaatcatggg | cctctggctg | ggcatgctgg | cctgtgtctt | cctggcaact | 60 |
| gctgcctttg | ttgcttatac | tgcccggctg | gactggaagc | ttgctgcaga | ggaggctaag | 120 |
| aaacattcag | gccggcagca | gcagcagaga | gcagagagca | ctgcaaccag | acctgggcct | 180 |
| gagaaagcag | tcctatcttc | agtggctaca | ggcagttccc | ctggcattac | cttgacaacg | 240 |
| tattcaaggt | ctgagtgcc | cgtggacttc | ttcaggactc | cagaggaggc | ccacgcccct | 300 |
| tcagctccta | ccagcagact | atcagtga | cagctgggtc | tccgcccgtg | ggctgtctctg | 360 |
| ggggcggcgt | cagccacact | gatgggtggg | ctcacgggtc | ggatcctagc | caccaggcac | 420 |
| tagcaaagaa | gcttggaaat | agaaagccag | gagtggctgt | ccccagtatg | caaacacacc | 480 |
| acggtctgcc | ctgcaaaaac | accaatgggg | tctagtgcag | gtggacactt | tgaaccactc | 540 |
| ctcaaaaaaa | gaactttggc | tgattccttg | tggtgacact | cagaggggtc | tgaacagact | 600 |
| tgacaattct | gttctgggtc | agctggagtt | ttcttctgtg | acttggactg | ctctacagaa | 660 |
| gacatcagcc | aactgcacga | gtcagagtcc | agggattgtc | actattatta | ataatgtaaa | 720 |
| tggcttcaaa | tgggacactg | cagataaaat | cacaaaaacc | actgttatat | taaagattac | 780 |
| acatttctctg | gaaaaaaaaa | aaaaaaaaaa | | | | 809 |

<210> 506

<211> 1151

<212> DNA

<213> Homo sapiens

<400> 506

| | | | | | | | |
|------------|------------|----------|------------|------|------------|------------|----|
| ggcacgagtg | tcaatgaaag | tgtttcta | aatgcaactg | cgga | ttgactccca | gatagctaga | 60 |
|------------|------------|----------|------------|------|------------|------------|----|

```

agtttgcaca tccactcac ccaggatata gctggtgacc caagctatga aattagcaaa 120
cagagactca gtattgtcat tggcgtggtt gctggcatta tgacggtgat tctaatacatc 180
ttaattgtag tgatggcaag gtactgcagg tccaaaaata aaaatggcta tgaagccggc 240
aaaaaagatc acgaagactt ttttacacc caacagcatg acaaatactaa aaagcctaaa 300
aaggacaaga aaaacaaaaa atctaagcag cctctctaca gcagcattgt cactgtggag 360
gcttctaagc caaatggaca gaggtatgat agtgtcaatg agaagctgtc agacagccca 420
agcatggggc gatacaggtc cgtaaatggt gggcccgga gtccctgacct ggcaaggcat 480
tacaatacta gttccccatt gcctactgtt cagcttcac cccagtcacc aactgcagga 540
aaaaaacacc aggcgtaca agatctacca ccagccaaca catttgtggg agcaggagac 600
aacatttcaa ttggatcaga tcaactgtct gagtacagct gtcaaacc aaacaagtac 660
agcaaacaga tgcgtctaca tccatacatt actgtgtttg gctgaattcc actctaata 720
gatgctccat tatgcacat actgtgatga cctttctact ccgaaacctg ctggagcctg 780
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tattgcaaca ataagtttga gactttgtgt gaacaaaggg aaattcagcc tcttatgtct 1080
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aaaaaaaaa a 1151

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<210> 507

<211> 308

<212> DNA

<213> Homo sapiens

<400> 507

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ggcacgaggg ggcgctgcga ggacccatgc agctgacgct ggggggcgcg gccgtggggc 60
cgggcgccgt gctggccgcc agcctgctct gggcgtgcgc cgtgggcctc tacatggggc 120
agctggagct ggacgtggag ctgggtgccg aggcagcagg gacggcctcc gcggaaggcc 180
ctgatgaggg gggctggccg ccacccgagt gacgcacac gccgtggggc ctggcaggcg 240
ctggacagcg cccgaggact gggacattaa acctgacctc ccctcctcca aaaaaaaaaa 300
aaaaaaaaa 308

```

<210> 508

<211> 1986

<212> DNA

<213> Homo sapiens

<400> 508

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ggcacgaggg aaaactgttt tatttgcatt tgaagaagct attggataca tgtgctgccc 60
ttttgttctg gacaaagatg gagtcagtcg cgtgtgcata agtgcagagt tggctagctt 120
cctagcaacc aagaatttgt ctttgtctca gcaactaaag gccatttatg tggagtatgg 180
ctaccatatt actaaagctt cctattttat ctgccatgat caagaaacca ttaagaaatt 240
atttgaaaac ctcagaaact acgatggaaa aaataattat ccaaagctt gtggcaaatt 300
tgaaatttct gccattaggg accttacaac tggctatgat gatagccaac ctgataaaaa 360
agctgttctt ccactagta aaagcagcca aatgatcacc ttcacctttg ctaatggagg 420
cgtggccacc atgcgcacca gtgggacaga gcccaaaatc aagtactatg cagagctgtg 480
tgccccacct gggaacagtg atcctgagca gctgaagaag gaactgaatg aactggtcag 540
tgctattgaa gaacattttt tccagccaca gaagtacaat ctgcagccaa aagcagacta 600
aaatagtcca gccttgggta tacttgcatt tacctacaat taagctgggt ttaacttgtt 660
aagcaatatt ttaagggcc aaatgattca aaacatcaca ggtattttatg tgttttacia 720
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acccaacaaa ctaacattcc tactaaaaag ttgagcttgg acatattttg aatttttga 840
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gctttaaaaa gataagtttt tttgaactaa atttttttta gttctaataa tgcacatagg 1200
atattagtac atcgtacacg tgctaggaaa aaacagcttc agtgtctttg tttaatgtgt 1260
tgaaactcat ctttttaaat cttgaaaaac caattgttta cttgaaactt gaaagtagca 1320

```

```

tatttttctg ttttttggtt gtttgttcat ttgtattagc acaatttaaat gtaattcctg 1380
gtttggaggc agcaagacct atgagcaaga actatttact tgacctcgt ttttttctct 1440
tgttcttctg tggctctgaaa tctaaaaacta gactttatta tgatagattt cctataagcc 1500
aatttctaata aacaaataga tttattattt aatctgtacc ttctatcttc tcataattcg 1560
tggctcttaca gccttccaaa ataactccag ttgggcaccc atgagctagg atcaaaacttt 1620
ctttatatac tttatatatt ttacattatt tctgattttt aaagcaaatg attgccatta 1680
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tatgtttatt ttataatgtt ttctagtgtc aaactgtact gtggagaaaa gaaatgttag 1920
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aaaaaa 1986

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<210> 509

<211> 1781

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature...

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 509

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ctggtggccc ggcgcgctgg aaccgcggcg acccgctcca gcgcgggacc agcagcaagg 120
gccgagcgcc aggttctccg cggcagaaaag ggcgggtggg agctgtaact gccccggccg 180
cggggcgcgcc ccgtctccaa gtcggcttcc tccccgccgg gcccgctttg cctcgggtct 240
ccccattctc caggtccctt gaactgcaca gtcggaggcc gtgggcggcg ggctctgcct 300
ccgcccaggg acagccggat cgcctctctg cttcccgcaa ctgccctgat cccccccgt 360
cccagccctt gagtgaacgt cttcttgagc ggcttctctg ggtcctcccc acgtcccaaa 420
ggcgggaag atggtgtcct ggatgatctg tcgcttggtg gtgctggtgt ttgggatgct 480
gtgtccagct tatgttctct ataaggctgt gaagaccaag aacattcgtg aatatgtgctg 540
gtggatgatg tactggattg tttttgcaact cttcatggca gcagagatcg ttacagacat 600
ttttatctcc tggttccctt tctactatga gatcaagatg gccttcgtgc tgtggctgct 660
ctcaccctac accaagggcg ccagcctgct ttaccgcaag tttgtccacc cgtccctgtc 720
ccgccatgag aaggagatcg acgcgtacat cgtgcaggcc aaggagcgca gctacgagac 780
cgtgctcagc ttcgggaagc ggggcctcaa cattgcgcgc tccgctgctg tgcaggctgc 840
caccaagagt caggggcgcc tggccggcag gctgcggagc ttctccatgc aggacctgcg 900
ctccatctct gacgcacctg cccctgccta ccatgacccc ctctacctgg aggaccaggt 960
gtcccaccgg aggccacca ttgggtaccg ggccgggggc ctgcaggaca gcgacaccga 1020
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gcccctaata cgcagccaga gcctgcgtgt ggtcaagagg aagccaccgg tgcgggaggg 1140
cacctcgcgc tccctgaagg ttcggacgag gaaaaagact gtgccctcag acgtggacag 1200
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gcacccacaa tgtaccaaag caggctgggc ccagggttct atttattgcc ttgctctgcc 1440
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cccctgcaaa tgaaaccaa cgtccacctg ggtgtgttca ttccttcctg tccttcaaa 1560
tacttgatag cttttcataa ggcctggcac atgtgtcctg gttgtgtgtg tgtgtgttg 1620
tgagttaggt caggtttgct agtgttttga taaataaata cataaagggg caaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggcggg 1740
ccgttttaaa ggatccaagt ttacgtacgc gtgcatgcaa c 1781

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<210> 510

<211> 1410

<212> DNA

<213> Homo sapiens

<400> 510

| | | | | | | |
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| cagatcaggg | tcttaagaag | attatctttc | atagtgccta | tttgatggta | atgatcataa | 60 |
| atacagtata | atagaaggaa | aaatatctgg | tggcttatat | gcattggtag | tttctcatgg | 120 |
| taataagcat | ttttttttct | cttcctttta | gcacaagtgc | atacaccttg | atagcaccaa | 180 |
| atataaacccg | gagaaatgag | atacaaagaa | ttgcggagca | ggagctggcc | aacctggaga | 240 |
| agtggaagga | gcagaacaga | gctaaaccgg | ttcacctggt | gcccagacgg | ctagggtggaa | 300 |
| gccagtcaga | aactgaagtc | agacagaaac | aacaactcca | gctgatgcaa | tctaaatata | 360 |
| agcaaaaagct | aaaaagagaa | gaatctgtaa | gaatcaagaa | ggaagctgaa | gaagctgaac | 420 |
| tccaaaaaat | gaaggcaatt | cagagagaga | agagcaataa | actggaggag | aaaaaaagac | 480 |
| ttcaagaaaa | ccttagaaga | gaagcattta | gagagcatca | gcaatacaaa | accgctgagt | 540 |
| tcttgagcaa | actgaacaca | gaatcgccag | acagaagtgc | ctgtcaaagt | gctgtttgtg | 600 |
| gcccacatc | ctcaacatgg | gccagaagct | gggcttacag | agattctcta | aaggcagaag | 660 |
| aaaacagaaa | attgcaaaaag | atgaaggatg | aacaacatca | aaagagtga | ttactggaac | 720 |
| tgaacacggca | gcagcaagag | caagaaagag | ccaaaatcca | ccagactgaa | cacaggaggg | 780 |
| taaataatgc | ttttctggac | cgactccaag | gcaaaagtca | accagggtggc | ctcgagcaat | 840 |
| ctggaggctg | ttggaatatg | aatagcggta | acagctgggg | tatatgagaa | aatattgact | 900 |
| cctatctggc | cttcatcaac | tgacctcgaa | aagcctcatg | agatgctttt | tcttaattgtg | 960 |
| atthttgtca | gcctcactgt | ttttacctta | atthtcaactg | cccacacact | tgaccgtgca | 1020 |
| gtcaggagtg | actggcttct | ccttgctctc | atthtatgcat | gtttggagga | gctgattcct | 1080 |
| gaactcatat | ttaatctcta | ctgccaggga | aatgctacat | tatttttcta | attggaagta | 1140 |
| taattagagt | gatgttggtg | gggtagaaaa | agaggagagtc | acttgatgct | ttcaggttaa | 1200 |
| tcagagctat | gggtgctaca | ggcttgctct | tctaagtac | atattcttat | ctaattctca | 1260 |
| gatcaggttt | tgaaagcttt | gggggtcttt | ttagatttta | atccctactt | tctttatggt | 1320 |
| acaaatatgt | acaaaagaaa | aaggctcttat | attcttttac | acaaatttat | aaataaattt | 1380 |
| tgaactcctt | cctgggtataa | atgggtccat | | | | 1410 |

<210> 511

<211> 1303

<212> DNA

<213> Homo sapiens

<400> 511

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| agggtaaatg | cgtacttttc | taacctttgt | tattttgaaa | gttattctga | tattcctatc | 60 |
| cagttgtgcc | tcatttacta | gaaatttggc | cacatggcca | aatgatgtat | ccacagaaca | 120 |
| atthgaaact | agaccttttg | gaagcgaact | cctacaaact | gtcatcaatg | ttagcagaac | 180 |
| ttgagcaaaag | acctcaacc | agccatcctt | gtagtaattc | catcttcagg | tggagggaaa | 240 |
| aggtaacatt | taaggagact | ggttgtaatt | tcttgattgg | gcctgctggg | tggagtggct | 300 |
| taaagtagca | tcagggcaaa | aaagggtgta | ggaattctat | gtgatattaa | tattcatgca | 360 |
| gttagttaag | aagataaatg | ttttwattht | tcttttgagc | acaataacaa | gagctagaca | 420 |
| aaaccgaata | cattctgtgt | acaccaaact | tctatgagaa | gctaaaaaac | acttttgatt | 480 |
| tcttctttct | catcatacct | gaatttcate | ccttggtagt | gcttttacag | taaaatttct | 540 |
| attaaattga | aattttaata | ttcgttcaga | cctaaattat | aagattttgt | ggtaggtatt | 600 |
| agtctcatct | gtttaagatg | gtgcctaattg | cagataatgc | atcagtacag | ctctgaaatg | 660 |
| cttgtagcta | tttttattac | tgatcagaag | ggggaactgt | aatcatcttg | tgaagggaca | 720 |
| gttttctaag | gctcaagagc | tcgaaaacaa | tctcaatcat | ttacagggtt | gtgatcattt | 780 |
| cacttgcatt | aagccaaacta | aagttgtatt | tgtaaaagta | atgctatgaa | tattactatt | 840 |
| tgacctagac | acataggtta | gaatttgaaa | cacaggctat | aaagtatagt | aattgtgtaa | 900 |
| ttgtgaaaat | attaaggctt | caactcaaaa | ctgaaacaca | gtagggctta | gaaatctttg | 960 |
| aattattttat | accctcagct | ttaaaaactt | ccagtccagg | cgcagtggct | catgcctgta | 1020 |
| atcccagaac | tttgggaggc | caaggcaggc | ggatcacctg | aggtcaggag | ttcgagagca | 1080 |
| gcctggctga | cacggtgaaa | ccccgtctct | actaagaata | caaaaattag | ccaggcatgg | 1140 |
| tggtgggac | ctgtaatccc | agctacgggg | gaggctgagg | caggagaatc | acttgaaccc | 1200 |
| gggaggtgga | ggttgtagt | ggccaagatc | atgccactgc | actccagcct | gggtgaacag | 1260 |
| ggcaagactc | tgtctaaaaa | aaaaaaaaaa | aaaaactcgt | agg | | 1303 |

<210> 512

<211> 2118

<212> DNA

<213> Homo sapiens

<400> 512

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| ggcacgagca | taaattgata | acattaaaag | caagcaaaac | tctaataata | aaaggataaa | 60 |
|------------|------------|------------|------------|------------|------------|----|

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| ttgaattatg | gtacattctc | tgggtgaatat | tgcatatcaa | ggaaaatgtg | aaaaatgtaa | 120 |
| atacagccgt | gtaaatgaag | aggaaaaatgt | aaagctaaac | gggaaatagc | gtatctatat | 180 |
| tttaggtaac | atttaaataga | tgataatagc | taatatTTTT | atgaaccctt | tactatgtgc | 240 |
| agggtacttg | ttctgttttg | cctacacatt | aattcattta | atcctcctaa | caacctctga | 300 |
| ggtagtagt | attactgccc | catttttcac | agctgtgctg | cagtcgagtg | cctgtccaag | 360 |
| tacacactgg | cctgagtagg | cccaggaggc | tgggtgatgt | ggctccgcag | cctccactcc | 420 |
| tgccactgtg | gcacactgcc | tctgtttatat | taattcatca | aataattgagg | gtccctttga | 480 |
| tgccacgcac | tatccaccac | tggcaccctg | acacttagac | cctaacagat | atggctgttg | 540 |
| ctcgtgagga | tctttatttta | ttaggaggtg | atagaaagta | aaatcagata | atgcatgcca | 600 |
| cgtggatcat | taaaacagac | tgagttgcaa | agagtgaactc | cgtgggtttct | gtggcttggt | 660 |
| tggtcagaaa | ggtgtttctg | agatgaagct | gagcagagct | gtccaaagaa | caggaaagaa | 720 |
| ccagctaggc | tgtgattggg | ggatagtggg | ttcaggcaga | aagaacagct | actgggtttc | 780 |
| ctagggtgtt | tggagcacag | ccggtgaggg | gcacatagct | gggccagggc | atgtagagct | 840 |
| tggtcagcct | ctggaaggca | tgggattttt | atgctaagta | tgttggaag | cctttggagg | 900 |
| gagaatggat | tgtgtgtggc | tctggctggc | agcagccagt | taggctttca | cagtagacaa | 960 |
| ggggagatga | ttgtggcttg | ggtgacagtg | tattataatt | acggagaaag | gtttggatat | 1020 |
| gattcagaga | tagggctgac | agagcttgct | gttggttag | atgtaggaaa | ttagcaaagg | 1080 |
| aaaggaatgg | gagagcagag | attgggattc | aactggagcc | atagtagcca | tgtgttggtt | 1140 |
| atcagacatc | caaggggagg | tgccaaattg | ctagtgggt | acagggatct | ggcattctgt | 1200 |
| gagaggccaa | ggcttgggta | tataggttat | gtgtggataa | ctgcatctcc | cacatgctta | 1260 |
| ggaggccaga | taaaacagtg | caagaaaata | ttaacaataa | ggattatgga | caatttgagt | 1320 |
| ttccttctac | tttcctttgt | gaaaatgtgt | tgctttaaaa | atcaaaccac | tgattccttt | 1380 |
| ttccaagtct | gataaatattt | gaagaattttt | tagagaaact | aagttacaaa | gttatagtag | 1440 |
| ttatataatc | agaattggca | tgggtgtagag | atgtcaaagt | gggtgttttg | ctttttaata | 1500 |
| ctttgtatca | gggttatatt | ttaacaaaga | gataagaata | ttagagacag | gagtgggtggc | 1560 |
| tcacacgtgt | aatcccagca | ctttgggatg | ccgaggtggg | tggatcacca | gaggtcaaga | 1620 |
| gttcgatacc | agcctggcca | acatggtgaa | accctgtctc | tactataaat | accaaatta | 1680 |
| gccaggtgtg | gtggcgacac | cctgtaatcc | cagctgttca | gcggactgag | gcacggaaat | 1740 |
| cgcttgaacc | tgggagctgg | aggttgcagt | gagccaagat | tgtgccactg | ccgtccagtc | 1800 |
| tgggcaacag | agtgaagactc | tgtctcaaaa | taataataat | aatagagtct | agtcttcatt | 1860 |
| ttgccactaa | aattatgtct | ctctatatat | ttatttatc | aacacgtatt | tattgaaagc | 1920 |
| ttgtcatgtg | cctggcattg | ttctaggtgc | taggaatata | gcagtgaaca | gaatccacaa | 1980 |
| gtcctccctc | caggagcctt | tacattctag | aagggaaga | agttctcccc | ctcagctcaa | 2040 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 2100 |
| aaaaaaaaaa | aaaaaaaaaa | | | | | 2118 |

<210> 513

<211> 587

<212> DNA

<213> Homo sapiens

<400> 513

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| ggcacgaggc | ggagcgaagc | tggataacag | gggaccgatg | atgtggcgac | catcagttct | 60 |
| gctgcttctg | ttgtactaga | ggcacggggc | ccaggggaag | ccatccccag | acgcaggccc | 120 |
| tcattggccag | gggaggggtg | accagggcgc | ccccctgagc | gacgctcccc | atgatgacgc | 180 |
| ccacgggaac | ttccagtacg | accatgaggg | tttcttgagg | cgggaagtgg | ccaagggaatt | 240 |
| cgaccaactc | accccagagg | aaagccaggc | ccgtctgggg | cggatcgtgg | accgcatgga | 300 |
| ccgcgcgggg | gacggcgacg | gctgggtgtc | gctggccgag | cttcgcgcgt | ggatcgcgca | 360 |
| cacgcagcag | cggcacatac | gggactcggg | gagcgcggcc | tgggacacgt | acgacacgga | 420 |
| ccgcgacggg | cgtgtgggtt | gggaggagct | gcgcaacgcc | acctatggcc | actacgcgcc | 480 |
| cgggtgaagaa | tttcatgacg | tggaggatgc | agagacctac | aaaaagatgc | tggctcggga | 540 |
| cgagcggcgt | ttccgggtgg | ccgaccagga | tggggactcg | atggcca | | 587 |

<210> 514

<211> 1251

<212> DNA

<213> Homo sapiens

<400> 514

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| gcccacgcgt | ccgcccacgc | gtccggcggt | gcggagtatg | gggcgctgat | ggccatggag | 60 |
| ggctactggc | gcttctctggc | gctgctgggg | tcggcactgc | tcgtcggctt | cctgtcgggtg | 120 |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| atcttcgccc | tcgtctgggt | cctccactac | cgagaggggc | ttggctggga | tgggagcgca | 180 |
| ctagagttha | actggcacc | agtgetcatg | gtcaccggct | tcgtcttcat | ccaggggcatc | 240 |
| gccatcatcg | tctacagact | gccgtggacc | tggaaatgca | gcaagctcct | gatgaaatcc | 300 |
| atccatgcag | ggttaaagtc | agttgctgcc | attcttgcaa | ttatctctgt | ggtggccgtg | 360 |
| tttgagaacc | acaatgttaa | caatatagcc | aatatgtaca | gtctgcacag | ctgggttgga | 420 |
| ctgatagctg | tcatatgcta | tttgttacag | cttctttcag | gtttttcagt | ctttctgctt | 480 |
| ccatgggctc | cgctttctct | ccgagcattt | ctcatgcccc | tacatgttta | ttctggaatt | 540 |
| gtcatctttg | gaacagtgat | tgcaacagca | cttatgggat | tgacagagaa | actgattttt | 600 |
| tccctgagag | atcctgcata | cagtacattc | ccgccagaag | gtgttttcgt | aaatacgctt | 660 |
| ggccttctga | tcctgggtgt | cggggccctc | attttttgga | tagtcaccag | accgcaatgg | 720 |
| aaacgtccta | aggagccaaa | ttctaccatt | cttcatccaa | atggaggcac | tgaacaggga | 780 |
| gcaagagggt | ccatgccagc | ctactctggc | aacaacatgg | acaaatcaga | ttcagagtta | 840 |
| aacagtgaag | tagcagcaag | gaaaagaaac | ttagctctgg | atgaggctgg | gcagagatct | 900 |
| accatgtaaa | atggtttaga | gatagagcca | tataacgtca | cgtttcaaaa | ctagctctac | 960 |
| agttttgctt | ctcctattag | ccatatgata | attgggctat | gtagtatcaa | tatttacttt | 1020 |
| aatcacaaag | gatggtttct | tgaataaatt | tgtattgatt | gaggcctatg | aactgacctg | 1080 |
| aattggaaag | gatgtgatta | atataaataa | tagcagatat | aaattgtggt | tatgttacct | 1140 |
| ttatcttgg | gaggaccaca | acattagcac | ggtgccttgt | gcakaataga | tactcaatat | 1200 |
| gtgaatatgt | gtctactagt | agttaattgg | ataaactggc | agcatccctg | a | 1251 |

<210> 515

<211> 4412

<212> DNA

<213> Homo sapiens

<400> 515

| | | | | | | |
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| aacattagat | ctcaatgaaa | accagaatgg | aaccctttca | ctatcataaa | ctcattttata | 60 |
| aaagtgccca | tgatgaatag | caagaagtac | ccagtggccc | atctcattga | ccaaacttag | 120 |
| aaagccaagg | tggggcatct | gcagctctcc | cacaatctga | gtttgtgttg | atcctgtgtac | 180 |
| cccacaacct | gaaacatctt | cttatatata | tcgagcgagc | tctcagccct | tctgttttca | 240 |
| aggccatcat | ggagaaactg | gagatgtcca | agttccagcc | cactctccta | acactacccc | 300 |
| gcatacaaga | gactaagcca | gactatgggg | gaaagggaga | taagaaggat | cctggaactt | 360 |
| taaagagggg | aagagtgaga | ttcagaaatc | gccaggactg | gactttaagg | gacgtcctgt | 420 |
| gtcagacaaa | gggactggca | cacacagaca | cacgagaccg | aggagaaact | gcagacaaat | 480 |
| ggagatacaa | agacttagaa | ggacagctcc | tttcacctca | tcctacttgt | ccagaaggta | 540 |
| aaaagacaca | gccagaaaga | aaaggcatcg | gctcagctct | cagatcagga | caggctgttg | 600 |
| atctgtggcg | gtactctgaa | agctggagct | gcagcacacc | ccttttgtat | tgctcaccct | 660 |
| cggtaaaagag | agagagggct | gggaggaaaa | gtagttcatc | taggaaactg | tcctgggaac | 720 |
| caaacttctg | atttcttttg | caaccctctg | cattccatct | ctatgagcca | ccattggatt | 780 |
| acacaatgac | atggagaatg | ggaccccggt | tcactatgct | gttggccatg | tggctagtgt | 840 |
| gtggatcaga | accccccccc | catgccacta | ttagaggcag | ccacggagga | cggaaagtgc | 900 |
| ctttgggtttc | tcgggacagc | agtagggccag | ctcggtttct | gaggcacact | gggaggtctc | 960 |
| gcggaattga | gagatccact | ctggaggaac | caaaccttca | gcctctccag | agaaggagga | 1020 |
| gtgtgcccgt | gttgagacta | gctcgcccaa | cagagccgcc | agcccgcctg | gacatcaatg | 1080 |
| gggccgcctg | gagacctgag | caaagaccag | cagccagggg | ctctccgcgt | gagatgatca | 1140 |
| gagatgaggg | gtcctcagct | cgggtcaagaa | tggtgcgttt | cccttcgggg | tccagctctc | 1200 |
| ccaacatcct | tgccagcttt | gcagggaaga | acagagtatg | ggtcatctca | gccccctcatg | 1260 |
| cctcggaagg | ctactaccgc | ctcatgatga | gcctgctgaa | ggacgatgtg | tactgtgagc | 1320 |
| tggcggagag | gcacatccaa | cagattgtgc | tcttccacca | ggcaggtgag | gaaggaggca | 1380 |
| agggtgagaag | gatcaccagc | gagggccaga | tcctggagca | gccccctggac | cctagcctca | 1440 |
| tccttaagct | gatgagcttc | ctgaagctgg | agaagggcaa | gtttggcatg | gtgctgctga | 1500 |
| agaagacgct | gcaggtggag | gagcgctatc | catatcccg | taggctggaa | gccatgtacg | 1560 |
| aggatcatga | ccaaggcccc | atccgtagga | tcgagaagat | caggcagaag | ggctttgtcc | 1620 |
| agaaatgtaa | ggcctctggt | gtagagggcc | aggtggtggc | ggaggggaat | gacggtggag | 1680 |
| ggggagcagg | aaggccaagc | ctgggcagcg | agaagaagaa | agaggaccca | aggagagcac | 1740 |
| aagtcccacc | aaccagagag | agtcgggtga | aggtcctgag | aaaactggcc | gccactgcac | 1800 |
| cagctttgcc | ccaacctccc | tcaaccccca | gagccaccac | ccttctctct | gccccagcca | 1860 |
| caacagtgac | tcggtccacg | tcccggggcg | taacagtgtc | tgcaagacct | atgaccacca | 1920 |
| ctgcctttcc | caccacgcag | aggccctgga | ccccctcacc | ctcccacagg | ccccctacaa | 1980 |
| ccactgaggt | gatcactgcc | aggagaccct | cagtttcaga | gaatctttac | cctccatccc | 2040 |
| ggaaggatca | gcacaggagag | aggccacaga | caaccaggag | gcccagcaag | gccaccagct | 2100 |

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|------|
| tgagagagctt | cacaaatgcc | cctccccacca | ccatctcaga | acccagcaca | agggctgctg | 2160 |
| gcccaggccg | tttccgggac | aaccgcatgg | acaggcggga | acatggccac | cgagacccaa | 2220 |
| atgtggtgcc | aggtcctccc | aagccagcaa | aggagaaacc | tcccaaaaag | aaggcccagg | 2280 |
| acaaaattct | tagtaatgag | tatgaggaga | agtatgacct | cagccggcct | actgcctctc | 2340 |
| agctggagga | cgagctgcag | gtgggggaatg | ttccccttaa | aaaagcaaag | gagtctaaaa | 2400 |
| agcatgaaaa | gcttgagaaa | ccagagaagg | agaagaaaaa | aaagatgaag | aatgagaacg | 2460 |
| cagacaagtt | acttaagagt | gaaaagcaaa | tgaagaagtc | tgagaaaaag | agcaagcaag | 2520 |
| agaaagagaa | gagcaagaag | aaaaaaggag | gtaaaacaga | acaggatggc | tatcagaaac | 2580 |
| ccaccaacaa | acacttcacg | cagagtccca | agaagtcagt | ggccgacctg | ctggggctct | 2640 |
| ttgaaggcaa | acgaagactc | cttctgatca | ctgctcccaa | ggctgagaac | aatatgtatg | 2700 |
| tgcaacaacg | tgatgaatat | ctggaaagtt | tctgcaagat | ggctaccagg | aaaatctctg | 2760 |
| tgatcaccat | cttcggccct | gtcaacaaca | gcaccatgaa | aatcgaccac | tttcagctag | 2820 |
| ataatgagaa | gcccattgca | gtgggtggatg | atgaagactt | ggtagaccag | cgtctcatca | 2880 |
| gcgagctgag | gaaagagtac | ggaatgacct | acaatgactt | cttcatgggtg | ctaacagatg | 2940 |
| tgatcgatac | tttccagctc | cgaatcaaag | atatggagaa | gcagaagaag | gagggcattg | 3000 |
| tttgcaaaaga | ggacaaaaag | cagtcctctg | agaacttctt | atccagggtt | cgttgaggga | 3060 |
| ggaggttgct | ggtgatctct | gctcctaacy | atgaagactg | ggcctattca | cagcagctct | 3120 |
| ctgccctcag | tggtcaggcg | tgcaattttg | gtctgcgcca | cataaccatt | ctgaagcttt | 3180 |
| taggcgttgg | agaggaagtt | gggggagtg | tagaactgtt | cccaattaat | gggagctctg | 3240 |
| ttgttgagcg | agaagacgta | ccagccatt | tggtgaaaga | cattcgtaac | tattttcaag | 3300 |
| tgagcccgga | gtactttctc | atgcttctag | tgggaaaaga | cggaaatgtc | aaatcctggt | 3360 |
| atccttcccc | aatgtggtcc | atggtgattg | tgtacgattt | aattgattcg | atgcaacttc | 3420 |
| ggagacagga | aatggcgatt | cagcagtcac | tggggatgcg | ctgccagaa | gatgagtatg | 3480 |
| caggctatgg | ttaccatagt | taccaccaag | gataccagga | tggttaccag | gatgactacc | 3540 |
| gtcatcatga | gagttatcac | catggatacc | cttactgagc | agaaatatgt | aaccttagac | 3600 |
| tcagccagtt | tcctctgcag | ctgctaaaac | tacatgtggc | cagctccatt | cttccacact | 3660 |
| gcgtactaca | tttctgcct | ttttctttca | gtgtttttct | aagactaaat | aaatagcaaa | 3720 |
| ctttcaccta | ttcatgagtt | attattgaaa | cctcaaatac | taaagacatt | taaaagaatt | 3780 |
| gtttttctaa | ctggaggggc | tctagtgtca | aataatagta | ctgaaaattg | atattatttt | 3840 |
| ccttttctta | tatgaaggac | cttatttggc | atataaaatt | ttataaaata | tgtattttaa | 3900 |
| gctttttctt | attttttgta | ttaattggta | agtgaaaact | ctgttaaaga | tcacaccaca | 3960 |
| atgttttcaa | gaaacatctg | aaaagataaa | acaaagaaca | aataacttat | aatacttact | 4020 |
| taaattgaca | ctttttgaaa | tgccagctcg | aaaataatta | agatatctct | gctttgtatg | 4080 |
| agtttctttt | atgaaacttg | ataccacggg | agtccagtaa | tattggccac | aaaagccaga | 4140 |
| gaaagtacca | agcccagctt | tggtatcata | gccacttcct | gccctgcttc | tggtattttt | 4200 |
| agtgtttttt | cagatataaa | tcgggggtcca | ggaaatcctc | accagaatct | ggcactgcag | 4260 |
| ccaaaggcga | tacttccaga | gttctagtag | gctgctatgg | aatttctggc | atgaaaattc | 4320 |
| ttgacccctc | acactttacc | ccctgtacag | ca | | | 4380 |
| | | | | | | 4412 |

<210> 516

<211> 969

<212> DNA

<213> Homo sapiens

<400> 516

| | | | | | | |
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| ggcacgagta | gcagcgtggc | ttccctggct | cctctctgca | tccttcccga | ccttcccagc | 60 |
| aatatgcatc | ttgcacgtct | ggtcggctcc | tgctccctcc | ttctgctact | gggggacctg | 120 |
| tctggatggg | cgccagcga | tgacccatt | gagaaggatca | ttgaagggat | caaccgaggg | 180 |
| ctgagcaatg | cagagagaga | ggtgggcaag | gccctggatg | gcatcaacag | tggaatcacg | 240 |
| catgccggaa | gggaagtggg | gaaggtttcc | aacggactta | gcaacatggg | gagccacacc | 300 |
| ggcaaggagt | tggacaaaag | cgctccaggg | ctcaaccacg | gcatggacaa | ggttgcccat | 360 |
| gagatcaacc | atggtattgg | acaagcagga | aagggaagcag | agaagcttgg | ccatgggggtc | 420 |
| aacaacgctg | ctggacaggc | cggaaggaag | gcagacaaag | cggtccaagg | gttccacact | 480 |
| gggtgccacc | aggctgggaa | ggaagcagag | aaacttggcc | aaggggtcaa | ccatgctgct | 540 |
| gaccaggctg | gaaaggaagt | ggagaagctt | ggccaagggtg | cccaccatgc | tgctggccag | 600 |
| gccgggaagg | agctgcagaa | tgctcataat | ggggtcaacc | aagccagcaa | ggaggccaac | 660 |
| cagctgctga | atggcaacca | tcaaagcgga | tcttccagcc | atcaaggagg | ggccacaacc | 720 |
| acgccgttag | cctctggggc | ctcggtcaac | acgcctttca | tcaaccttcc | cgccctgtgg | 780 |
| aggagcgtcg | ccaacatcat | gccctaaact | ggcatccggc | cttgctggga | gaataatgtc | 840 |
| gccgttgtca | catcagctga | catgacctgg | aggggttggg | ggtggggggc | aggtttctga | 900 |

aatccctgaa ggggggtgta ctgggatttg tgaataaact tgatacacta aaaaaaaaaa 960
 aaaaaaaaaa 969

<210> 517

<211> 1334

<212> DNA

<213> Homo sapiens

<400> 517

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|------|
| tctcagtggt | cagaggctgt | gttggaccca | tagtagaatt | ttccagtcac | agacccaagc | 60 |
| ttccatgggt | tggtactgtg | ctgtaccact | tggtggktct | gattctgaac | ctgatgtgtg | 120 |
| tggttaattat | attttaagca | acacacacac | acacacacgc | ctcatgtaac | ggacttttat | 180 |
| aacaaaagaa | aaaatttga | tttctaattt | acaaatggca | aattatttat | ccctctcttg | 240 |
| atgcaccaaa | gaccagtaaa | gtttatagct | tttccatcta | tatttataaa | gcaataactgt | 300 |
| attataaaaa | tcaatatttt | tatcacatgc | ttgaaatttt | tattttgttg | ttttaaaatg | 360 |
| tgcaactctaa | acatacaga | accttatttc | ttcctatgaa | cttaagctgc | ctgcgcacaa | 420 |
| aaaaaaaaaa | aatttaccaa | atggagatgc | agtagagtcc | ataggctcta | aaaactaaaa | 480 |
| gaaatgggat | gcagggggaa | caagtatttt | gtcctgagtt | actgtacttg | cttgacatgg | 540 |
| ttgttgggta | ctaaatcaca | aaagaatcca | ttccagggtat | gcattgtctg | gggttgggct | 600 |
| gtgtctagat | tagaaactgg | gtttcaagct | ttgcatgatg | ggagagcgct | ctctcctcta | 660 |
| tcagctgcgt | gtgttctgga | taggacagta | gcccggagat | ggaaaccacc | ttcagtacca | 720 |
| ttagcccacc | ataccaagta | acaagttagg | caggaatcgt | gggaatttat | tgagtcagct | 780 |
| ttgagtgttt | gagagaatgt | aaacaagatt | ggctcgaatt | gtaaacgttt | gtactttgga | 840 |
| tgagttcatg | gttcttttag | tcaccttaac | accagctatc | tttggtagaa | gctacagcat | 900 |
| tcagtttctc | tggaaactgt | atcacatttt | tgcattttaa | aaattttaca | gtatcaaaaa | 960 |
| acaaaaatct | gcttatgaaa | caaaacatga | agcaggacat | atttggattc | tattttattta | 1020 |
| aaattaaatt | ctttgcacaa | ttgaacttct | caactaaaac | gtgtccatgt | cagaatttta | 1080 |
| actgttagca | ggtagtttgt | ggcaaagatg | gctaaataat | gaagcaaat | agaatctgtg | 1140 |
| tgtatactaa | tgagctgctt | ttttctgtt | gagactatca | ttatttgtct | tattacccaa | 1200 |
| gaggcaatta | cctgaatttg | gatgtctgaa | ttataactta | tgacaggaata | gttctgttaa | 1260 |
| tacattttaa | taaaactgta | agatatttaa | taaataatag | atttatacta | aaaaaaaaaa | 1320 |
| aaaaaaaact | cgag | | | | | 1334 |

<210> 518

<211> 1476

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (69)..(69)

<223> n equals a,t,g, or c

<400> 518

| | | | | | | |
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| ncctatttct | gcttactgtg | ttaccagaga | gcctgggggt | ctggatccta | tctggccccg | 60 |
| tcaggtggna | ttgccaaatg | agcagttctc | ttgccccagt | ccctttcctg | tgctataaat | 120 |
| aagccccatg | tttattttct | tatgttattg | aaatgagcac | ttgtgatttg | ggcctctttt | 180 |
| gaggagtcca | gagagcgtcc | atccggtgcc | tggtgagggc | cctgcatggc | tggtctgtgt | 240 |
| ctgaagctat | ttggagtcct | ctccctgtgt | tttctatgtg | gcttaatttc | aatagaaagg | 300 |
| gttatatgca | accctgtatc | tgctgatttt | caggtttcaa | ctttctgcc | gcgtcactgc | 360 |
| ctgcttagaa | gtaaagttat | gtttctcatt | aaggggataa | cagccacaat | tgaggtaatt | 420 |
| aacgaaaaat | gtacattggg | ggcagcacct | cctataggat | ttccaatagt | ctttctctag | 480 |
| tagatcattg | ggggctcacc | ttgatctcct | ctcttctgtc | taccctgcac | caaaatacct | 540 |
| tgctctgttt | tctggatata | gttccaataa | tttttttctc | aacagccttt | ttgtcaccag | 600 |
| ttggtttgat | atcttacaac | ttggccaaat | gagggttcca | ttactccat | cttgtcta | 660 |
| gcattggagaa | ttcaaggatt | ttttttttcc | tcttttcata | gcaccttcca | gttgccagtt | 720 |

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|------|
| gtaccctggc | ccttcttttg | aagtcataat | gatgaatata | cattaataag | agattgatgc | 780 |
| tctttcaact | ctcatgtcat | ctataccatc | tcagtggaga | ggatgacttt | ggatgaggtt | 840 |
| ggaatagaaa | ggaaacattt | ggaagtccac | tgcatgtgat | tatatgctgt | gtggaagtct | 900 |
| gggggttagg | aaatacctgg | agggagaact | tcctaagaaa | tgatttttgg | ttcttttagg | 960 |
| ccttaacagc | acaataaaag | tatccccatga | gaccattatg | agcaggacac | gacattgttt | 1020 |
| cacaccttgg | gctgtgacta | tttactttctc | ggtacagatt | actctgggta | aatcactcag | 1080 |
| taaagaaatc | ttttcatgct | cacaatctga | acctgaaggc | tattactgaa | gagaattgca | 1140 |
| tctgacaaca | aaatttaatt | tacttccaga | gaaaggacca | gaagaaagta | aattttcatt | 1200 |
| tatgttttta | agtctattgt | cttaaaaaaga | ttcttttccc | ttaaaaaata | aaaaaacctg | 1260 |
| atgtgatggg | ttccttcagt | caacaaatac | ttattgagca | gttattgtgt | gccagatact | 1320 |
| gttcttgggtg | tgaggatatg | gcactgaaca | aaacaatgta | cctactttcg | tcaagcttac | 1380 |
| attctagtga | ggaagataac | caaaacaagt | gactgaatat | aatttcaaat | gtcaataaat | 1440 |
| gctgtgaaga | aaataaagca | gagtattata | tgtaaa | | | 1476 |

<210> 519

<211> 2126

<212> DNA

<213> Homo sapiens

<400> 519

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| ggcacgagtt | gctaagttga | ttaaagggtg | gtcttccact | ctgccactgg | ccacagcaca | 60 |
| aagtgaanaac | agatgtcaca | agcaccttgt | agatctgtcc | cttttttctt | ctgatgttca | 120 |
| ccctcctttt | gagctctttc | tttctccaac | attgcttaca | aaataatctt | tatgcatctg | 180 |
| agagggagca | aatattcagt | aactttctgc | agctgtcctc | actaaagagg | agaatctggt | 240 |
| gaatgccact | ggaaatgtaa | ggatctcttg | tgacagtaac | atctcaaggg | gaaactagtg | 300 |
| gttaaattgt | taattctttg | agtctgaaac | ttttttcatt | tgcatgtcag | ataagtgcct | 360 |
| gatcttgtag | tatcacgttt | ctgacttctt | tggtctggct | tcattttttt | tttcccaaaa | 420 |
| tgccattttc | atgtgttctt | agagttcaga | acatgtcaaa | gagcttcttt | aagcagtagg | 480 |
| tggtttttaca | gagccacag | agaaggaaaa | ctaaatatca | tcccggatgc | agtccactac | 540 |
| gatcgtggag | gagtcagatt | actctccggg | ctttgctgtg | tctgcttgtg | aaacaggaaa | 600 |
| gggagaactg | aggcaatgag | tcacctcact | tgggcccaaa | gcaccaccta | cgttgaatat | 660 |
| ggagaaaaatg | tgaagcaaga | gtttcttttt | atacataatc | accatttgta | cataatcacc | 720 |
| attttctcca | tggttcttat | ccaattcagt | gcatcttaaa | ggatggtttg | tggaatcatg | 780 |
| acatagcaga | aaaatccagg | tactatcagt | cttgctgtgt | tctacctaac | tctttcattt | 840 |
| aaactctcac | tagaatctat | aggaactgtt | agcatcaatt | ttaataagtt | gtcaactaag | 900 |
| tgattagtgg | tattttattg | ttatttttga | caaaataatg | gaatcatcaa | attttgaagt | 960 |
| tgagaagtaa | agtaaaaaat | tgtgccaaac | cccaaagtga | gacaaggta | tattataaac | 1020 |
| attaatgctg | tcccaactg | ccaatgcatt | gcgtagaact | gaggttagca | ggttaccatt | 1080 |
| gatttctctc | acttatgctt | taagagggtg | gcatttgtaa | gccgctacac | tttcttggtc | 1140 |
| aatgaggcag | aaaccccttt | gcaaaactct | caactgatga | aaagattagc | tagaatgact | 1200 |
| ctaggaactg | ttttctaagg | atctgactca | ttgattcctt | tttttggtag | ggttctctgg | 1260 |
| gccaaagttag | ttcgagtatt | tatcatttaa | attaggatat | taccatcacc | atcatcatgt | 1320 |
| acattcataa | atcaaagcaa | gattagagaa | ggaatatggt | ggatcacaga | gcaactcaga | 1380 |
| aagacgacag | caacaactag | gaaatgaaac | accatgggtg | tatttcagga | accctaccca | 1440 |
| gcagatagga | attaccatag | ctcctaaaaat | tccatctggg | tggttgatgg | agcctcaatt | 1500 |
| aatctgacac | catagcccat | gctccccctc | tgctacctgc | tgaagtttagc | agggaaaagt | 1560 |
| caaagagggt | gctgtcagtg | gggtcaattc | ttagggatca | tagtgaacca | ccctccattg | 1620 |
| cactgactct | ttcccacaaa | atgggctaga | gatagcagct | ctccttatgt | atttaagaaa | 1680 |
| gaatgggtcaa | aaaatacaat | tcacatttta | ttctgggtata | taccattttg | acagtgtttc | 1740 |
| acaatgtagg | taatatgaat | gggagtattt | aaacacaatc | ctgtttaata | ttcttagcca | 1800 |
| gtacttatta | aatgcctacc | aagcctggca | ttgttctaga | gacctcaaaa | tacaccttta | 1860 |
| aaaacatatt | ttattgacag | ttgtataaat | gaagaaaaca | agtctcagaa | aattaaagtg | 1920 |
| acttgcacag | atacacaagc | tagaaaagta | taaaactgaa | ttttgaacc | aggtttgta | 1980 |
| gactctaaag | tccatgattt | tctgtcccat | gtggccaacc | cagttagaaa | ggttataaaa | 2040 |
| aatcttaaca | gtttttcagc | ccttctcaca | cttagcttta | ggattaaaaa | tattggtcat | 2100 |
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<210> 520

<211> 1370

<212> DNA

<213> Homo sapiens

<400> 520

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actaacttgt gtgttcctaa aatcaagttg aaactaggat aattgtctag ttcttgcttt 180
gataagaacg cagtagttct gatgcttggt tccatgtgta tgggtctggt attcttgcaa 240
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<210> 521

<211> 1397

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1383)..(1383)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1396)..(1396)

<223> n equals a,t,g, or c

<400> 521

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cgtggctttg ccaaagactt ttaatagcat tttttaagt caaaacgtct aggtaaaaat 180
ctttatcatc agtgaccaa ttagaatgta tttaatatag taggtgggtt aagaactggt 240
ttaacgtaag acaaactgat agcaacattc tgtgtttta aaggaagtgg gtccgtgaca 300
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gtttttaact acagtgattt attagctcag tatctagaaa ttacgtatat tttgtgctac 420
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aggagcagct gagctctagt ctgccagctg ctctgctctt tctgggaagg aggtggcgcc 600
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gttccgcgtg gacgcctcaa gtggattaat ttctggaagc ctcaatctgt atgtttgagt 1140

```

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| atttacatga | gaatgttatt | tgaatggaat | tttcttaacc | cagaaggtag | tatttataat | 1200 |
| cattttacttg | tagcgaactg | ttttaaagtta | acacttggtt | aaatTTTTTT | acactatagc | 1260 |
| atttatgcaa | tgggtttacag | aattcatgga | gttattttta | tcagtatggg | aattaattaa | 1320 |
| aaccttgaat | cttaaaaaaa | aaaaaaaaaag | ggcggccgct | ctagaggatc | caagcttacg | 1380 |
| tangcgtgca | tgcgana | | | | | 1397 |

<210> 522

<211> 931

<212> DNA

<213> Homo sapiens

<400> 522

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| ggcacgagcg | gccgcgggac | atccacgggg | cgcgagtgc | acgcgggagg | gagagcagtg | 60 |
| ttctgctgga | gccgatgcc | aaaaccatgc | atttcttatt | cagattcatt | gttttctttt | 120 |
| atctgtgggg | cctttttact | gctcagagac | aaaagaaaga | ggagagcacc | gaagaagtga | 180 |
| aaatagaagt | tttgcacgt | ccagaaaact | gctctaagac | aagcaagaag | ggagacctac | 240 |
| taaatgcca | ttatgacggc | tacctggcta | aagacggctc | gaaattctac | tgcagccgga | 300 |
| cacaaaatga | aggccacccc | aatgggtttg | ttcttggtgt | tgggcaagtc | ataaaaggcc | 360 |
| tagacattgc | tatgacagat | atgtgccttg | gagaaaagcg | aaaagtagtt | ataccctt | 420 |
| catttgcata | cggaaaggaa | ggctatgcag | aaggcaagat | tccaccggat | gctacattga | 480 |
| tttttgagat | tgaactttat | gctgtgacca | aaggaccacg | gagcattgag | acattttaa | 540 |
| aaatagacat | ggacaatgac | aggcagctct | ctaaagccga | gataaacctc | tacttgcaaa | 600 |
| gggaatttga | aaaagatgag | aagccacgtg | acaagtcata | tcaggatgca | gttttagaag | 660 |
| atatttttaa | gaagaatgac | catgatggtg | atggcttcat | ttctcccaag | gaatacaatg | 720 |
| tataccaaca | cgatgaacta | tagcatattt | gtatttctac | tttttttttt | tagctattta | 780 |
| ctgtacttta | tgtataaaa | aaagtcactt | ttctccaagt | tgtatttgct | atttttcccc | 840 |
| tatgagaaga | tattttgatc | tccccaatac | attgattttg | gtataataaa | tgtgaggctg | 900 |
| ttttgcaaac | ttaaaaaaa | aaaaaaaaaa | a | | | 931 |

<210> 523

<211> 1044

<212> DNA

<213> Homo sapiens

<400> 523

| | | | | | | |
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| ggattttcag | agacaaaggt | ccaagttagg | agacgtaatt | actcagtgc | ttgaaggagc | 60 |
| atccaagggtg | ctcactctta | gccatagccg | ttgggttctt | ggatgctgac | tgtgaagatt | 120 |
| ctaaagtgtc | tcctaggggtg | ggcgggtggtg | gcaggaggcc | ttggacggag | tcaggccaga | 180 |
| cccagccttc | tgtttaatag | gctgagccca | agcgtccctc | agatgcgaat | ccaacagcct | 240 |
| tgggtgagttg | taagatttca | tggaaacttt | ccctgacttc | tgtctcccc | ttgctcccca | 300 |
| ttacctggga | aaggcagctt | tgtgggcat | gtgtcccga | agggcctggg | ctggctgtgg | 360 |
| cccagtgtc | aggaccagcc | atcttgccc | tcacagcgcc | ctgcccagtt | ggtgtaatat | 420 |
| ttgtyttcaa | gccattgttg | gagcaggcag | gcaaaggggg | ctttctgagg | atccaacgtg | 480 |
| tgccagccac | tgggatacaa | agacaggcct | ggttcctagc | tgtggggctg | ggaaggggat | 540 |
| ctgacatcaa | tgggtggcacc | tggcagagga | cacacagaca | acagcaggca | gcattggactt | 600 |
| ttatgtttgt | agcttgagct | ggttttaatt | ggaagctctg | tgatttacat | aatcacttac | 660 |
| aatctctgta | aataagggaac | tatttatgag | gaattgtaaa | tttcctctct | cccccttctt | 720 |
| accctgtctg | tgatcttgtc | tgtgatgcag | taatgatatt | ccactctagg | ttccccatgat | 780 |
| cagtgggtgaa | atatagtgat | tttcacctgt | gcttccattc | tgaagttctg | gaaagaagta | 840 |
| ctggatggac | tgaagtccag | gacaacgtyc | caaagaaaag | cagagtccag | gtaggcttgg | 900 |
| aggaccaagc | cctggatgag | cactggaggg | cagaggcctc | agtggtccagc | actgtgccct | 960 |
| gcacatggaa | agcccctacg | tttgtggaat | gaatgaataa | taaaaatgtt | ttcataagtg | 1020 |
| aaaaaaaaaa | aaaaaaaaact | cgag | | | | 1044 |

<210> 524

<211> 1143

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1100)..(1100)

<223> n equals a,t,g, or c

<400> 524

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acaaccgggg cgatggcacc tttgtggacg ctgcccgcag tgctggtgtg gacgaccccc      180
accagcatgg gcgaggtgtc gccctggctg acttcaaccg tgatggcaaa gtggacatcg      240
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tccgcttcgg gggacatcgc cttcacccaa gttctccatg ccctcccctg ttcgcgacgg      360
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ctaccgcagc tcctcagcca accgcctett ccgctcatc cgtagagagc acggagaccc      480
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tgtggtgacc gacttcgacg gagacgggat gctggacctc atcttgctcc atggagagtc      600
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agtgggtgcca cgcacccggg ttggggcctt tgccagggga gctaaggtcg tgctctacac      720
caagaagagt gggggcccacc tgaggatcat cgacgggggc tcaggctacc tgtgtgagat      780
ggagcccgtg gcacactttg gcctggggaa ggatgaagcc agcagtgtgg aggtgacgtg      840
gccagatggc aagatggtga gccggaacgt ggccagcggg gagatgaact cagtgtgga      900
gatcctctac ccccgggatg aggacacact tcaggaccca gcccactgg agtgtggcca      960
aggattctcc cagcaggaaa atggccattg catggacacc aatgaatgca tccagttccc      1020
attcgtgtgc cctcgagaca agcccgtatg tgtcaacacc tatggaagct acaggtgccg      1080
gaccaacaag aagtgcagtn cggggctacg agtcccaacg aggatggcac atacgggctt      1140
gtc

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<210> 525

<211> 791

<212> DNA

<213> Homo sapiens

<400> 525

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ggcacgagct gcatttgatc tcattcttta gtccaatgta agtaagagta aaacaatgac      60
atttaaggcc accaggctat tctcattttt ggaaaaatgc tggattacat taccagcata      120
ttaaatgaga atatcaaggt gtaatatctc cctagaaatt gtctcacctt caatactatt      180
gacatttttg gacctgataa ttttgtgtg ggcctagcc tcatgttata ggaggtttac      240
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aaaactaaaa ttgtctctaa acattgacaa attgtccctg gtagtgaaaa tcacccttg      360
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attggggaat tagtggcaca ttatcctaatt agttaatata gtgactgtaa tatctaaata      540
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cactgtatat actgttattt tgagagacaa ttttgggaat tttgccaagg tattttcaat      660
tataggctct taatacattc taagcaagtg ggtctcaaaa atgggaattt tacacccac      720
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aaaaaaaaa a

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<210> 526

<211> 2425

<212> DNA

<213> Homo sapiens

<400> 526

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cgctgccgat cgccgggagg acccccgcct cgccgaagac gggcggggca agccgagcct      60
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gagtaagcca gagcgggtgc cagcgggtg tagccgcagc cgccgctgtc aggcgcagca      180
acggacaacc ccgtagaagt cggtcggcag gtcctctcca acccgccgct accgcgcgc      240
tgtgggagag accccagcag gagcccaagg gcagctacgg gggcgccaag gccgctggcg      300
ccgcctcggc cagcccttcc cgcgcggttc cactgcctta aggatgacag tcgtagggaa      360
ccctcgaagt tggagctgcc agtggtgcc aatcctgata ctgttgctgg gcacaggcca      420
tggggcaggg gtggaaggcg tgacacacta caaggccggc gaccctgtta ttctgtatgt      480
caacaaagtg ggaccctacc ataaccctca ggaaacttac cactactatc agcttccagt      540

```

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|------|
| ctgctgccct | gagaagatac | gtcacaaaag | ccttagcctg | ggtgaagtgc | tggatgggga | 600 |
| ccgaatggct | gagtctttgt | atgagatccg | ctttcgggaa | aacgtggaga | agagaattct | 660 |
| gtgccacatg | cagctcagtt | ctgcacaggt | ggagcagctg | cgccaggcca | ttgaagaact | 720 |
| gtactacttt | gaatttgttg | tagatgactt | gccaatccgg | ggctttgttg | gctacatgga | 780 |
| ggagagtggg | ttctgcccac | acagccacaa | gataggactc | tggacccatt | tggacttcca | 840 |
| cctagaattc | catggagacc | gaattatatt | tgccaatggt | tcagtgcggg | acgtcaagcc | 900 |
| ccacagcttg | gatgggttac | gacctgacga | gttcctaggc | cttaccacac | cttatagcgt | 960 |
| gcgctggctc | gagacttcag | tggagcgtcg | gagtgacagg | cgccgtgggtg | acgatgggtg | 1020 |
| tttctttcct | cgaacactgg | aaatccattg | gttgtccatc | atcaactcca | tgggtgcttg | 1080 |
| gtttttactg | gtgggttttg | tggctgtcat | tctaattcgt | gtgcttcgga | atgacctggc | 1140 |
| tcgggtacaac | ttagatgagg | agaccacctc | tgcaggttct | ggtgatgact | ttgaccaggg | 1200 |
| tgacaatggc | tggaaaatta | tcatacaga | tgtcttccgc | ttccccccat | accgtgggtc | 1260 |
| gctctgtgct | gtgcttggcg | tgggtgccca | gttctctggc | cttggcactg | gcattattgt | 1320 |
| catggcactg | ctgggcatgt | tcaatgtgca | ccgtcatggg | gccattaaact | cagcagccat | 1380 |
| cttggtgtat | gccctgacct | gctgcatctc | tggctacgtg | tccagccact | tctaccggca | 1440 |
| gattggaggc | gagcgttggg | tgtggaacat | cattctcacc | accagtctct | tctctgtgcc | 1500 |
| tttcttctctg | acgtggagtg | tggatgaactc | agtgcattgg | gccaatgggt | cgacacaggc | 1560 |
| tctgccagcc | acaaccatcc | tgtgtcttct | gacggtttgg | ctgctgggtg | gctttccctt | 1620 |
| caactgtcatt | ggaggcatct | ttgggaagaa | caacgccagc | ccctttgatg | cacctgtctg | 1680 |
| caccaagaac | atcgcccggg | agattccacc | ccagccctgg | tacaagtcta | ctgtcatcca | 1740 |
| catgactgtt | ggaggcttcc | tgcctttcag | tgccatctct | gtggagctgt | actacatctt | 1800 |
| tgccacagta | tggggtcggg | agcagtacac | tttgtacggc | atcctcttct | ttgtcttcgc | 1860 |
| catcctgctg | agtgtggggg | cttgcattctc | cattgcactc | acctacttcc | agtgtcttgg | 1920 |
| ggaggattac | cgctgggtgg | ggcgtatctgt | gctgagtgtt | ggctccaccg | gcctcttcat | 1980 |
| cttctcttac | tcagttttct | attatgcccg | gcgctccaac | atgtctgggg | cagtacagac | 2040 |
| agtagagttc | ttcggctact | ccttactcac | tggttatgtc | ttcttctcca | tgtctgggac | 2100 |
| catctctctt | ttttcttccc | taaagtccat | ccggtatata | tatgttaacc | tcaagatgga | 2160 |
| ctgagttctg | tatggcagaa | ctattgctgt | tctctccctt | tcttcatgcc | ctgttgaact | 2220 |
| ctcctaccag | cttctcttct | gattgactga | attgtgtgat | ggcattgttg | ccttcccttt | 2280 |
| tgcccttttg | gcattccctc | cccagagagg | gcctggaaat | tataaatctc | tatcacataa | 2340 |
| ggattatata | tttgaacttt | ttaagtggc | tttagttttg | gtcctgattt | ttctttttac | 2400 |
| aattaccaaa | ataaaattta | ttaag | | | | 2425 |

<210> 527

<211> 1543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (76)..(76)

<223> n equals a,t,g, or c

<400> 527

| | | | | | | |
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| gttctgattg | ccagtnattt | tcatcaataa | gtcttgcaaa | gaatgggatt | gtcattcttc | 120 |
| acttcagcac | agttctagtc | ctgcttctct | ggagtagggg | tgttgagtaa | ggttgcttgg | 180 |
| gttggtgcat | gcacaagggc | acatggctgt | gaggtgtatc | ctggcggggg | gctgtctacc | 240 |
| tgcagtgagg | ggcacctttt | ctgttttgct | caaaggcatg | tataagccaa | tgggtgacct | 300 |
| tatttctgtg | gtcttcaggt | gtgtggcagg | ggcctggggg | tggggaggtg | gggcgagcga | 360 |
| gcagtgtgtg | gaaagccttg | ttgtcacctg | aagcacgcca | ggtccagatt | gaccaatggg | 420 |
| tttctcactt | cagggccmac | ccacgcccc | tttctgctga | ggtttgggtg | ccatctagtg | 480 |
| gtgggatggg | acttggttga | ctacatttaa | ggtaagggtg | acccagcaac | tcccagaaac | 540 |
| aactccgggg | acaccactcc | ccatcacact | ccacaccgag | cctgggtgcc | ggtctgtgcc | 600 |
| cgagctcagc | gggaccagga | agggatgggc | cctgccaggg | ttgccccctg | actgtgcatt | 660 |
| ctcgccctgg | aggcacaagt | tctttcatct | gcttttctct | cagaggtgct | gagccacgc | 720 |
| catagcccc | gtgggatggg | gggggagggg | gcgaccgaa | caacagtgca | gtcggtatcg | 780 |
| agattgggga | gaggagcgag | tccaaggaga | aggtcatgag | tttcttttta | ctcgtgttga | 840 |
| ataataacaa | taacaataac | aatatggaaa | ccaccgcaaa | cttgagaaaa | agttgttaagc | 900 |
| acagtaaaga | gaagcttcct | tctgagtcac | ttgagtgggt | gccgttcttg | ccctgacccc | 960 |
| tctgtgcttt | gggacggcgt | ccaaccgca | ttcatgtcag | gagtgagtcg | cacgtggcctt | 1020 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| tgtggcatg | gcgacttaat | ctgcctggac | ggtgggtccg | tctccctggg | cttagacgac | 1080 |
| cttggcactt | ctggagataa | gcccattggc | cccaggttgt | gttcatgtga | cgtttccttg | 1140 |
| tggtagggtc | tggtgtcg | ttttgtctag | gagtgtcaca | ggatggacac | tgcctcctgg | 1200 |
| caggggctgc | ccaatgcagt | tagcctcctg | ctgggtgtct | ctcttgttgc | ttggtgaagg | 1260 |
| tgccctgggt | cagcttctcc | actgcccagt | gaacgacccc | tttgtaatga | atgagtgggg | 1320 |
| aggtagtg | aagcgatgcc | aatatcccat | ccctgtcaaa | ctgcctttac | tttttccttc | 1380 |
| cttccttgct | cccacctgtg | tggtacctgg | tcccttcttg | tattcagggc | tgtggtctgt | 1440 |
| tatgacattt | actctcaggc | tcaggtcctg | cttggttggc | ccgtgggagc | cccttcttct | 1500 |
| gccttttgtg | ttkttttggt | atgtacctac | attatttaac | tgg | | 1543 |

<210> 528

<211> 1174

<212> DNA

<213> Homo sapiens

<400> 528

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|------|
| ggaattcggc | acgagctggc | tgcaggggtct | ctggggagag | aaggggcctc | ggcttcacag | 60 |
| gatggggctg | ccagtgtcct | gggcccctcc | tgccctctgg | gttctagggt | gctgcgcctt | 120 |
| gctcctctcg | ctgtgggcgc | tgtgcacagc | ctgccgcagg | cccaggagacg | ctgtagcccc | 180 |
| caggaagagg | gcgcggaggc | agcgggcgag | gctgcagggc | agtgcgacgg | cggcggaagc | 240 |
| gtccctactg | aggcggaccc | acctctgctc | cctcagcaag | tcggacacca | gactgcacga | 300 |
| gctgcaccgg | ggcccgcgca | gcagcagggc | cctgcggcct | gccagcatgg | atctcctgcg | 360 |
| cccacactgg | ctggaggtgt | ccaggacat | caccggaccg | caggcagccc | cctctgcctt | 420 |
| cccacaccag | gagctgcccc | gggctctgcc | ggcagctgca | gccaccgcag | ggtgcgctgg | 480 |
| cctcgaggcc | acctattcca | acgtggggct | ggcggccctt | cccgggggtca | gcctggcggc | 540 |
| cagccctgtg | gtggccgagt | atgcccgcgt | ccagaagcgc | aaagggaccc | atcgagctcc | 600 |
| ccaagagcca | cagcagggga | agactgaggt | gaccccgccg | gctcaggtgg | acgtcctgta | 660 |
| ctccagggtc | tgcaagccta | aaaggaggga | cccaggaccc | accacagacc | cgctggaccc | 720 |
| caagggccag | ggagcgcattc | tgccctggc | gggtgacctg | gcctaccaga | ccctcccgt | 780 |
| cagggccctg | gatgtggaca | gcggccccct | ggaaaacgtg | tatgagagca | tccgggagct | 840 |
| gggggaccct | gctggcagga | gcagcacgtg | cggggctggg | acgccccctg | cttcagctg | 900 |
| ccccagccta | gggaggggct | ggagacccct | ccctgcctcc | ctgccctgaa | cactcaagga | 960 |
| cctgtgctcc | ttcctccaga | gtgaggcccc | tccccgcccc | cgccccgcct | cacagctgac | 1020 |
| agcgccagtc | ccagggtcccc | gggcgcgcag | cccgtagggt | ccgtgaggtc | ctggccgctc | 1080 |
| tgacagccgc | ggcctccccg | ggctccagag | aaggcccgcg | tctaaataaa | gcgccagcgc | 1140 |
| aggatgaaag | cgaaaaaaa | aaaaaaaaaa | aaaaa | | | 1174 |

<210> 529

<211> 1766

<212> DNA

<213> Homo sapiens

<400> 529

| | | | | | | |
|-------------|------------|------------|-------------|------------|-------------|------|
| cggcacgagg | agcactgaag | tattcactac | atgaagtata | ttttgcactg | tggaacacaaa | 60 |
| ttagaaaaat | tgcaagtagt | ggtatatgt | aattggcatg | cactatatga | gcagagtcaa | 120 |
| tgtgtctcct | tgtagaatat | tctctgatga | tactcactat | tatccccctt | ctgctaagct | 180 |
| ttgttctgtg | tctgaagggc | ataaagcatg | gaaactacat | ttttcagact | ccattaccag | 240 |
| aaggatatgg | ttggatttca | gcaatgagtg | ggctttgcat | aaaatttggg | agacgaaaga | 300 |
| gaagaaaaac | ctggctgctg | cagggttgaa | cactggcaac | aatagatacg | gagtttgcaa | 360 |
| gaagctgcta | agcttctcca | ggaaaattat | ttgtttcaat | atttctggca | tatgggatca | 420 |
| tcaattattg | ttttcagtgg | ttctggctga | aaattgggtc | aattcttcta | tctgagaatt | 480 |
| gttcatttct | gtgcttcagg | aaactaagac | catcactggc | agtttttgtt | gagggatcct | 540 |
| tgtgcattca | tttttcctta | aaacagcctt | cctaactttt | actccccag | cctctatggt | 600 |
| tgtgtaagtc | tttaattctt | agagttacat | ttctcttact | cagtatatcc | tagtgccgct | 660 |
| tctgttttcc | agacccaacc | ctgactgata | tagtctccat | gtgtttcaga | tggtgggata | 720 |
| gtttggatat | ttgtccctgc | ccaaatttca | tgttgaactc | taatccccag | tgctgtaggt | 780 |
| ggggcccaat | gggaggtgtt | cggatcatgg | gggcagatcc | ctcacggctt | ggtgctgtct | 840 |
| tcgtgatagt | gagttcttgt | aagatctggt | catttttaaag | tgtttggcac | ttgtaccatt | 900 |
| tcaactgtgtc | ttgtctctgc | tttcaccatg | tgaagtgcct | gctccagctt | cacttttcac | 960 |
| catgatttga | aacttcccta | ggcctcccta | gaagccaagc | agatgccatc | accagggttc | 1020 |
| ctgtaaagca | tcgagaactg | ttagccaatt | atacctcttt | tctttacaaa | ttaaaaacct | 1080 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| cttttcttta | caaaatggaa | agaataaagg | tatttcttta | tagcaatgca | agaacggcct | 1140 |
| aatacagatg | gctctgccat | tagtgagaaa | attgagacgc | tttctctaga | tggcaaaaaa | 1200 |
| gttgtaaaaa | taaaaggaaa | ttattaatat | accgtctatt | gtgatcattt | actaagttaa | 1260 |
| gcatattatt | aagaagacaa | gcataagttt | aacacaattt | ggcaatgaat | aaaattgaag | 1320 |
| gagagagagc | atatgttggc | tttgctctgt | gaaactcaaa | tgaaatgggc | acctgttcta | 1380 |
| gcagctcatg | aaaaattctg | cattgtttat | tatgtgtcag | gatcaacctt | aaattcagtt | 1440 |
| ataaaaaagt | tgatgattac | aaaaaaaaag | gaagcactaa | gtaatatagg | tacagagagg | 1500 |
| gaagagtgtc | aaatagaatt | ttcaatctgt | gtataaggat | acttaagcat | tttttaagga | 1560 |
| aagcagaaag | aagcatgaga | aagtctacaa | tgacatctat | gtcaatataa | caagctggat | 1620 |
| atttagagaa | gaaactcttg | attaaatact | ttttatgata | tgaacacaca | catataatat | 1680 |
| gacatgactg | tgttcatgga | acataaagaa | attcctctga | ccaaagagaa | ctggaaaaaa | 1740 |
| aaaaaaaaaa | actcgagggg | gggccc | | | | 1766 |

<210> 530

<211> 1021

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (248)..(248)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1004)..(1004)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1014)..(1014)

<223> n equals a,t,g, or c

<400> 530

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|------|
| ttcggcagag | cccttgcgcg | ctcttgaata | cctgckttct | gtagcgctag | ttctcttcaa | 60 |
| gatttgctta | gtgtcatttc | atttcggttt | cttttctcgc | catgtttttc | tgtcgggaatt | 120 |
| acggttcggt | ttggttctat | gtactctcta | aaatgttatc | gtttttcatt | tgtctactaa | 180 |
| ttttcgtgca | tttgttacta | ctgagtttct | taatatctga | ctggcctccg | cccacgggct | 240 |
| ctgcaganca | taaaatactc | aggctgatgg | tagtgcgag | actctccctc | cttgatcagc | 300 |
| gcaaacgttg | gtctgaggct | tgagggatgg | agcaacattt | tcttggtgtg | gtgaagcggg | 360 |
| cttgggattc | cgcagagggtg | gcgccagagc | cccagcctcc | acctattgtg | agttcagaag | 420 |
| atcgtggggc | gtggcctctt | cctttgtatc | cagtactagg | agagtactca | ctggacagct | 480 |
| gtgatttggg | actgctttcc | agcccttgct | ggcggctgcc | cggagtctac | tggcaaaacg | 540 |
| gactctctcc | tggagtccag | agcaccttgg | aaccaagtac | agcgaagccc | actgagttca | 600 |
| gttggccggg | gacacagaag | cagcaagarg | caccgtaga | akargtgggg | caggcagarg | 660 |
| aacccgacag | actcaggctc | crgcagcttc | cctggagcag | tcctctccat | ccytgggaca | 720 |
| gacagcagga | caccgaggtc | tgtgacagcg | ggtgcctttt | ggaacgcgcg | catcctcctg | 780 |
| ccctccagcc | gtggcgccac | ctcccgggtt | tctcagactg | cctggagtggt | attcttcgcg | 840 |
| ttggttttgc | cggttctctt | gtactctggg | cgtgctgttc | acggatctgt | ggagctaagc | 900 |
| agccttagat | agcagcagaa | ggctttttgg | attctctctc | ttgaaaagat | tctcagttac | 960 |
| caaacgtctc | cacctagaaa | ataaaaatac | attaagatgt | tganaaaaaa | aaanaaaaaa | 1020 |
| a | | | | | | 1021 |

<210> 531

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (309)..(309)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (408)..(408)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (418)..(419)

<223> n equals a,t,g, or c

<400> 531

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacagctc | accttcctac | cctccactgg | aaaccactcc | tctccatggt | gacctcctgg | 60 |
| attgcctcca | tcccctcccg | ctgtgggggt | ctgtgtatct | gcttgtgttt | tggattgggt | 120 |
| cactgtctgg | atctgtcaag | gaagataacc | atcttttcag | gagctgtgta | catggtgaaa | 180 |
| aatatacagt | tctggttgta | aggaactctc | acttgggaat | attattattt | aaaaacttat | 240 |
| acgttgagct | cagtgtgtgc | acagaggtaa | gaatactgtg | gaaaggctat | aaatattttt | 300 |
| ccccaaagnc | aggggttgga | aacatttttc | tttcctaggc | tgttgagact | cacagggaaa | 360 |
| aaaaaaaaaa | aaaatccggg | ggggggcccc | gtacccattg | gccccangg | gggggttnna | 420 |
| aaaaggcccc | gtt | | | | | 433 |

<210> 532

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 532

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
| ggcacgagtg | gaagtgtgag | cagaaatata | gcgagggtc | aggaaatact | agaataggca | 60 |
| acatgtctct | cctctctgct | tctatctgca | catctgcttt | atctctttgc | ctcagcagac | 120 |
| tcaccatctc | tgtctctcat | cccgcatggt | ggggaaggat | gcccaccac | acctcccag | 180 |
| gccatctgtt | agagctccaa | ccacgtggaa | tgacggaatc | cattctgttc | tctatctctg | 240 |
| ctctagtttc | aaattcctgg | ggaaaaatga | cccagctcac | ttcaggctcc | cactcttggg | 300 |
| ccagtgggct | gcaaaatttc | caagcgtagc | ttctgtcagt | tccttgcttt | gggttaggtg | 360 |
| aaaatgaagg | gaataattgt | gagctgttca | gattcaccaa | gaaattatct | actattgttg | 420 |
| ggggagaatg | cccaggggac | agatgcattt | gggtaaggga | caataacaag | acactagaaa | 480 |
| ggaaaaatcc | aattttattt | tcctacagag | tcagcatccc | acacattttc | cttcacagaa | 540 |
| actgacaaat | aatccatggg | ggcagcttag | cagatgggtt | gaaaaaagcg | acaggctcat | 600 |
| catcagtttt | caacaccttg | atacatcagg | cttggccctt | gctacctcat | gcattattta | 660 |
| agcacaatgc | atctccctct | aattgtgtca | tgtgtctggg | gagaatgtga | agttctgtct | 720 |
| gtcttttagca | aacatgtttc | aagtactgtc | tgtctgaaaa | ccaaatggaa | gagggtaaac | 780 |
| ttgatgatcc | acttgatttt | agtttttagga | cctgggatgca | taggcagatg | tcagtttaca | 840 |
| aggattctgt | gtactttaag | gaatgttttc | tgagcatgtc | cagtacaaca | gacgctctgt | 900 |
| taggtagctg | tagttaggat | tttttggttg | taagtatgtg | aagattttaa | tgtatcagct | 960 |
| cacttactca | gaaaaatctga | ggcagtgcta | gccaaccaa | atggttcaag | caaatgtcat | 1020 |
| cagtatttgg | cctcttcag | tctttttact | cctctatcct | ctgtgtctgc | ttcacttcta | 1080 |
| cacaagcttt | ctctatgtgg | tggtccaga | ttttatatct | tctagtagat | atttttttaa | 1140 |
| aaaaaaaaaa | aaaaa | | | | | 1155 |

<210> 533

<211> 727

<212> DNA

<213> Homo sapiens

<400> 533

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gctggtatct | ccagtgtttg | ggttttagctc | caacttacag | gttaggacca | gcttttctgc | 60 |
| aggtgttgac | cagcaatttc | ctgcggcatt | tacttcttga | taacaagagt | gagaagatag | 120 |
| agacagggca | gatagacact | taagagtaaa | atgtattaac | acaaaggctc | tggccgccc | 180 |
| cctacaaagg | aggccatgga | accgatggaa | ctgatggagg | aaatgctggg | actgtgggtc | 240 |
| agtgtgaca | caccatggc | catacgtttg | gtcttcttgg | ccttggctgg | gctggtggat | 300 |
| gggaagccag | tatggatcac | cttgtggatg | gatgcaaaga | gaccaaactt | ggcgggcact | 360 |

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| ggaagtacct | gggaagcag | gagagactca | cactgctgtc | atggccccac | agcctggagc | 420 |
| ctccccctgcc | tcctctgcct | cttcagagcc | cagcagaaag | acagagaaag | aagcctcctt | 480 |
| gggggtcccat | taccacact | ccaaggtgga | aatctttcag | atggtttagat | gatgaaggta | 540 |
| gtagaaggca | aggatgattg | ggagtagaag | gaagagtgc | aggctagcat | gagctgtgca | 600 |
| gcagcaagat | tccatatgag | caaagttcag | aaagtgrgmm | aaaaggacca | agttggatct | 660 |
| cctcctaacc | ctgacctgca | tgatatgggt | gtgagaagct | tcaactgaga | aagctgctga | 720 |
| gaaagta | | | | | | 727 |

<210> 534

<211> 2112

<212> DNA

<213> Homo sapiens

<400> 534

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| aacccagtt | caatacgact | cactataggg | aaagctggta | cgctgcagg | taccgggtccg | 60 |
| gaattcccgg | gtcgaccac | gcgtccggga | gttcaaagcc | atgctgatcg | ctgtgggcat | 120 |
| ccacctgctg | ctgctcatgt | tcgaagtcct | ggtctgcgac | aggggyggaga | ggggcaccca | 180 |
| cttctggctg | ctggctttca | tgctctctt | cttcgtgtcc | cccgtgtccg | tggtgcctg | 240 |
| cgtctggggc | tttcgacacg | ataggtcgct | ggagctggag | atcctgtgct | cgtcaacat | 300 |
| cctgcagttc | atcttcatcg | ccctaaagct | ggacaggatt | attcactggc | cgtggctggt | 360 |
| ggtgtttgtg | cccctgtgga | tcctcatgtc | gttcctttgc | ctggctgtcc | tctattacat | 420 |
| cgtctgggtcc | ctcctgttcc | tgcggtccct | ggatgtggtt | gccgagcagc | ggagaacaça | 480 |
| cgtgacctag | gctatcagtt | ggataacgat | tgctgtgcct | ctgctcactt | ttgaggtcct | 540 |
| gctggttcac | agattggatg | gccacaatac | attctcctac | gtctccatat | ttgtccccct | 600 |
| ttggcttttc | ttactaactt | taatggccac | aacatttagg | cgaaggggg | gcaatcattg | 660 |
| gtggtttggc | attcgagag | acttctgtca | gtttctgctt | gaaattttcc | catttttaag | 720 |
| agaatatggg | aacatttcat | atgatctcca | tcacgaagat | agtgaagatg | ctgaagaamc | 780 |
| atcagttcca | gaagctccga | aaattgtctc | aatatttggg | aagaaggcca | gagtagttat | 840 |
| aaccagagc | cctgggaaat | acgttcccc | ccctcccaag | ttaaattattg | atatgccaga | 900 |
| ttaaactcct | agagaggacc | caggcacaca | cagactccac | ttggccttcg | cctctgttc | 960 |
| atcatccca | aacctggaaa | tggaacacag | cttcaaacac | tcgtctcacg | ccgtgtttga | 1020 |
| gatcacgcc | tcatcagtat | gcacataga | tggaggtggt | ttcagtatgt | gggtgtgtgt | 1080 |
| grtgtgtacc | tggttaagag | acttgccttc | cagggttcgca | ctttcagggtg | tagctggggg | 1140 |
| cagtaagttc | aattgtttta | gtaggctctc | aaaaggaata | accacacagc | tgtttgttta | 1200 |
| aatgctactg | tacctatcaa | aactattggt | taaaaagtat | ttttatacac | tgctaactct | 1260 |
| aaattgtatt | tcagattgtg | cctgtcataa | caatagcaaa | tgtaaaaagt | tctctttccc | 1320 |
| accacttggt | tataaacctc | atagttgata | tttttagtgt | tcctactggt | aaaataactct | 1380 |
| ctccttgggc | tttgctgata | ctggtcttta | atattctgat | aggtgaattt | ttctaattgga | 1440 |
| atgaacccat | gcataatatag | tatttatatg | aatatttttag | cagtgtaata | tggtgaattc | 1500 |
| tagttctctg | cattaccatt | attacgttaa | agtatttttt | aaagcttarg | tgtgaagata | 1560 |
| tgtgkctatt | gcagatgtcc | ttggaaaact | gcataaaaca | gtatgtgccy | ggtgtggatc | 1620 |
| ttaccaaagt | actaggcatg | aatgtaggga | ctgcaaattc | catgggtcct | aatatttagg | 1680 |
| tgtagtaac | caaggtctct | ggtagtacct | gttagtagag | gaagaggcca | ctgcccttgg | 1740 |
| gaacttgtga | caggctctag | tgtggtacca | ggccataaag | tgacactggt | atttagcaac | 1800 |
| ttgaatttyt | ccacacaggt | agtaactgtg | tggaaataag | caacaagtgg | tttgtccatt | 1860 |
| tctaagaatc | ttaaactatt | agttggctgt | agtgtgaagc | attactgtgc | attggaaaga | 1920 |
| tggagagagt | ggccttaacc | ggaagtggtc | agtagaagca | ggtgtcattt | taagggccaa | 1980 |
| actttaatct | gtcagcaata | gggaaacaac | tgttcaaatt | atctttgtag | ataagaacag | 2040 |
| tgkttctttt | ttcttttctt | ttgktttttt | gkttgkttgk | tttgktttgt | tttgagacag | 2100 |
| agtttcactc | tt | | | | | 2112 |

<210> 535

<211> 1598

<212> DNA

<213> Homo sapiens

<400> 535

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgaggg | actggggagg | cgtgtcttga | aaaagcaact | gcagaaattc | cttatgatga | 60 |
| ttgtgtgcaa | gttagttaac | atgaaccttc | atttgtaaat | tttttaaaat | ttcttttata | 120 |
| atatgctttc | cgcagtccta | actatgctgc | gttttataat | agctttttcc | cttctgttct | 180 |
| gttcatgtag | cacagataag | cattgcactt | ggtaccatgc | tttacctcat | ttcaaaaaaa | 240 |

| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|------|
| tatgcttaac | agagaggaaa | aaaatgtggt | ttggccttgc | tgctgttttg | atztatggaa | 300 |
| tttgaataag | ataattataa | tgccctgcaat | gtgtcatata | ctcgcacaaac | ttaaataaggt | 360 |
| catttttgtc | tggtggcattt | ttactgtttg | tgaaagtatg | aaacagattt | gttaactgaa | 420 |
| ctcttaatta | tgtttttaaa | atgtttgtta | tatttctttt | cttttttctt | ttatattacg | 480 |
| tgaagtgatg | aaatntagaa | tgacctctaa | cactcctgta | attgtctttt | aaaataactga | 540 |
| tatttttatt | tgtaataaat | actttgccct | cagaaagatt | ctgataccct | gccttgacaa | 600 |
| catgaaactt | gaggctgctt | tggttcatga | atccagggtg | tcccccgga | gtcggcttct | 660 |
| tcagtcgctc | cctggaggca | ggtgggcact | gcagaggatc | actggaatcc | agatcgagcg | 720 |
| cagttcatgc | acaaggcccc | gttgatttaa | aatattggat | cttgctctgt | taggggtgct | 780 |
| aatcccttta | cacaagattg | aagccaccaa | actgagacct | tgataccctt | ttttaactgc | 840 |
| atctgaaatt | atgttaagag | tccttaaccc | atttgcatta | tctgcagaag | agaaactcat | 900 |
| gtcatgttta | ttacctatat | ggttggttta | attacatttg | aataattata | tttttccaac | 960 |
| cactgattac | ttttcaggaa | tttaattatt | tccagataaa | tttctttatt | ttatattgta | 1020 |
| catgaaaagt | tttaaagata | tgtttaagac | caagactatt | aaaatgattt | ttaaagtgtg | 1080 |
| tgagagcgcc | aatagcaata | tctaggaat | ttgcattgag | accattgtat | tttccactag | 1140 |
| cagtgaataa | gatttttcac | aactaacttg | taaatatatt | ttaatcatta | cttctttttt | 1200 |
| tctagtccat | ttttatttgg | acatcaacca | cagacaattt | aaattttata | gatgcactaa | 1260 |
| gaattcactg | cagcagcagg | ttacatagca | aaaatgcaaa | ggtgaacagg | aagtaaattt | 1320 |
| ctggcttttc | tgctgtaaat | agtgaaggaa | aattactaaa | atcaagtaaa | actaatgcat | 1380 |
| attatttgat | tgacaataaa | atatttacca | tcacatgctg | cagctgtttt | tttaaggaca | 1440 |
| tgatgtcatt | cattcataca | gtaatcatgc | tgacagaaat | tgacgtctgc | accttatgga | 1500 |
| tcacaattac | ctttagtgtg | tttttttgta | ataattgtag | ccaagtaaat | ctccaataaa | 1560 |
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<210> 536

<211> 1256

<212> DNA

<213> Homo sapiens

<400> 536

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| cagagaaaag | gtgaaaatgt | caatttatgt | gcgaaggctg | gctacatcca | atcttctctt | 120 |
| attgttggtt | ttggacaacg | accccaagct | gctcagcctt | tggaatcctg | gatttacacc | 180 |
| agcagcacc | tatccccacc | ccttctctct | ggttctcagg | cctttgtcct | tggaactgag | 240 |
| tacatcattg | tcttcgctga | ttctaaacct | tggaacttgg | actgagctac | cagcatctca | 300 |
| gggcctctag | tttgcatatg | gcctgtcaag | ggacttagtc | tccaaaattg | caggagccag | 360 |
| tttccctaatt | aaatcccaat | gtgatagtct | ttatcccaaa | ggcccacttt | agttcagttt | 420 |
| agttttgctt | tgtttttaga | aatgggggtct | tgctctgttg | ccccagctgt | agtgcaagtgg | 480 |
| ctcactccag | cctcaaaactc | ctgggctctg | gcgactctcc | caactcagcc | tcctgagtag | 540 |
| ctgggattac | agggtgcacac | caccatgccc | agctactttt | taattttttt | tttttgagac | 600 |
| agagtcttgc | tctttcacc | aggctggagt | gcagtgccgt | aatctcagct | cactgtaacc | 660 |
| tctgcctccc | tagtggctgg | gaccgcagat | gtgtgccact | gcacccagct | aattttttgt | 720 |
| tttcggtaga | gacagggctt | tgccgtgttg | gccgggctgg | tcttgaaactc | ctggcctcaa | 780 |
| gtgaccacc | cacatcgacc | tcccaaagt | ctgggattac | aggcgtgagc | catctcacct | 840 |
| gcctactttt | taaatttttt | gtagagacag | ggtcttgcta | tattgcccag | gctaactctg | 900 |
| aacacctggc | ctcaagcgat | cttcccactt | gggctctca | aagtgtctgg | attacaggca | 960 |
| ggagcccctt | aaccaacttc | gagaacttgg | gaaataagat | gtgggtgggtt | cttgccaccg | 1020 |
| tgagccaaac | ctgggtcaga | acttcatgtg | tgatctggcc | cctacataca | cccactctga | 1080 |
| taggatatta | tgacactttg | gataacaatg | tcgatttgga | ccttggtgtcc | cacaggtctt | 1140 |
| aaaatatttg | gttattccac | ttttcccagt | gtatagttac | cagagcaaat | gatagtcccc | 1200 |
| tttgagagaag | tattaaggga | tcattaacaa | atactaacia | aaaaaaaaaa | aaaaaa | 1256 |

<210> 537

<211> 2801

<212> DNA

<213> Homo sapiens

<400> 537

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| caggaccccc | tcggggccga | cccgcagga | aagactgagg | ccgcggcctg | ccccggccgg | 120 |
| ctccctgcgc | cgccgcgcgc | tcccgggaca | gaagatgtgc | tccagggtcc | ctctgctgct | 180 |

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<210> 538

<211> 1407

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (353)..(353)

<223> n equals a,t,g, or c

<400> 538

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tgtaaatgta caaagctttt cttttggcac tgacaactgt gttctacctg ggaattttga 240
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ttttcctgag gtttttctact ccaccaaate ttacaaatsr ttgaaagaaa tatattctaa 480
cagtacgcac tgaatagtga aaataattag acattttaag aaccagagcc atagaattat 540
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<210> 539

<211> 1097

<212> DNA

<213> Homo sapiens

<400> 539

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gaatctggag atgcgttttt ggtttttggt tttttgtttt ttttttttcc cagagggtca 180
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<210> 540

<211> 3466

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3462)..(3462)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (3466)..(3466)

<223> n equals a,t,g, or c

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<210> 541

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 541

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acaagtaaat gattataaat actaaaaaaa aaaaaaaa 1238

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<210> 542

<211> 1304

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 542

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<210> 543
 <211> 1926
 <212> DNA
 <213> Homo sapiens

<400> 543
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 tgcttccatt cattgtttac gctggaattt ttctccccat ggaatgtaag taaaacttaa 1860
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 gggccc 1926

<210> 544
 <211> 1773
 <212> DNA
 <213> Homo sapiens

<400> 544
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 aagatgagga atctgaggat tatcagaact cagcatccat ccatcagttg cgcgagtcca 720
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 aggaggacgg ggaaccggat tacgtgaatg gggaggtggc agccacagaa gcctagggca 840
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1773

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<210> 545
<211> 1481
<212> DNA
<213> Homo sapiens

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<400> 545
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ccttgccctg gagctcttgg gaagggttgg ggggttcccag ccggccctcc ggagccgggg 180
gactgcgacg gcctgtcgcc tggacaacaa ggaaagcgag tcctgggggg ctctgctgag 240
cggagagcgg ctggacacct ggaatctgtc cctcctgggt tccctcatgg tggggctcag 300
tggggtcttc ccgttgcttg tcattcccct agagatgggg accatgtgc gctcagaagc 360
tggggccttg cgcctgaagc agctgctcag cttcgccctg gggggactct tgggcaatgt 420
gtttctgcat ctgctgcccg aagcctgggc ctacacgtgc agcgcagcc ctggtggtga 480
ggggcagagc ctgcagcagc agcaacagct ggggctgtgg gtcattgctg gcatcctgac 540
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caacaaagac cccactgctg ctgccgccgc rctcaatgga ggccactgtc tggcccagcc 660
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ccctgccctt caccgtggat gttttcagaa gtggccatcg agaggtctgg atggttttat 1380
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ataaatatta tccacataaa aaaaaaaaaa aaaaaactcg a 1481

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<210> 546
<211> 1147
<212> DNA
<213> Homo sapiens

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<400> 546
ggcacgagct aggagcctcc taatgcagtc ttctgcacag tcctggggac tgactgactg 60
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cctgctgctc caggagggca gccaaaggag actctggaga tgggtgggat ccgaggaagt 180
ggttgcggtc cttcaggagt ccatcagcct cccctggaa ataccaccag atgaagaggt 240
tgagaacatc atctggtcct ctcacaaaag tcttgccact gtggtgccag ggaaagaggg 300
acatccagct accatcatgg tgaccaatcc aactaccag ggccaagtga gcttcctgga 360
ccccagctat tccctgcata tcagcaatct gagctgggag gattcagggc ttttaccagg 420

```

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| ctcaagtcaa | cctgagaaca | tcccagatct | ctaccatgca | gcagtacaat | ctatgtgtct | 480 |
| accgatggct | gtcagagccc | cagatcactg | tgaactttga | gagttctggg | gaagggtgct | 540 |
| gcagtatgtc | cctgggtgtg | tctgtggaga | aggcaggcat | ggatatgacc | tacagctggc | 600 |
| tctcccgggg | ggatagcact | tatacattcc | atgaaggccc | tgtcctcagc | acatcctgga | 660 |
| ggccggggga | cagtgccttc | tcctacacct | gcagagccaa | caaccccatc | agcaacgtca | 720 |
| gttcttgccc | catccctgat | gggcccttct | atgcagatcc | taactatgct | tctgagaagc | 780 |
| cttcaacagc | cttctgcctc | ctggccaagg | gattgctcat | cttcttgctc | ttggtaattc | 840 |
| tggccatggg | actctgggtc | atccgagtcc | agaaaagaca | caaaatgcc | aggatgaaga | 900 |
| aactcatgag | aaacagaatg | aaattgagga | aggaggcaaa | gcctggctcc | agccctgcct | 960 |
| gactgtcctc | tgggaacccc | agtcctgagc | ttggtttctt | cccagcacc | agagaatcct | 1020 |
| tcctcagctc | tcttctttcc | aggggaagga | ggtgctcagg | ggtgggtatc | cagagagcca | 1080 |
| tacttctgag | ggaagactgg | ctggcaataa | agtcaaatta | agtgaccacc | aaaaaaaaa | 1140 |
| aaaaaaa | | | | | | 1147 |

<210> 547

<211> 1341

<212> DNA

<213> Homo sapiens

<400> 547

| | | | | | | |
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| caggaattcg | gcacgagagt | ctgtgggtcct | ctgtatctca | actttttcat | cttaaaaaaa | 60 |
| caaatagggt | tgtgtgtgtg | gctgggtggc | ataaggctct | ttctggctct | aataacctga | 120 |
| gcttctgtta | tgaagctggg | acccttagag | cctcaggatg | atcctctgtt | tgtttgtgaa | 180 |
| gccccaatca | ggtgctaagc | accatagtgg | cacttagctg | aagctcctct | gtaactcctg | 240 |
| tgggccctgc | cttggccacc | cccagacagt | gctgcagtgc | tcctgagcag | cacaggcctg | 300 |
| atggagcttc | tggagaagat | gctggccctc | accttggcaa | aggcagattc | tcccaggact | 360 |
| gcactcctct | gctctgctg | gctgctcact | gcctccttct | ctgcccagca | gcacaagggc | 420 |
| agtttgcagg | ttcaccagac | actctctgtg | gaaatggacc | aagtattgaa | ggctctcagc | 480 |
| tttccaaaga | aaaaggctgc | actactctca | gctgccatct | tatgcttctc | gcggacagcc | 540 |
| ctgcgacaaa | gcttttcttc | tgccttggtg | gccctgggtg | cctcaggggc | ccagccactg | 600 |
| ccagccacca | aggacactgt | cctagctcca | ctgcgaatgt | cgcaagtccg | gtccctggtc | 660 |
| attgggctgc | agaacctcct | ggtgcagaag | gacctcttat | tgtcccaggc | ctgtgttggc | 720 |
| tgcctggagg | ccttgcttga | ctacctggat | gcccggagcc | cagacattgc | tctccacgtg | 780 |
| gcctcccagc | cttgggaatc | gtttttgctg | tttacctctc | tggatgctgg | agagaattcc | 840 |
| ttcctcagac | ctgagatttt | gaggctcatg | accctgttta | tgcggtaccg | gagtagcagt | 900 |
| gtcctctctc | atgaagaggt | gggtgatgtt | ctgcaagggt | tggctttggc | tgacctgtct | 960 |
| accctctcga | acaccacact | ccaggccctg | catggcttct | tccagcagct | ccagagcatg | 1020 |
| ggacacctgg | ctgaccacag | catggccccag | accttgcagg | cctccttgga | gggccttccc | 1080 |
| cctagcacct | cctcaggcca | gccacccctg | caggacatgc | tctgcctggg | aggggtggct | 1140 |
| gtatccctgt | cccacatcag | aaactgatcc | tcaggacttg | aaggcccaga | agtggagaga | 1200 |
| gaatgagacc | tggagacaaa | gggcataatt | gttggggaaa | tggatgacag | ctgaagctat | 1260 |
| tcatatggag | ccatatactc | tattgttgaa | atagaataag | gaaataaaat | gatacactca | 1320 |
| cataaaaaaa | aaaaaaaaa | a | | | | 1341 |

<210> 548

<211> 912

<212> DNA

<213> Homo sapiens

<400> 548

| | | | | | | |
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| cctgcaagcg | cagagcctcc | taccaggac | catggcagcc | ccccaggaca | gcctcagacc | 120 |
| aggggaggaa | gacgaaggga | tgcagctgct | acagacaaa | gactccatgg | ccaagggagc | 180 |
| tagggccggg | gccakccg | gcagggtctg | ctgggggtctg | gcctacacgc | tgttgcaaa | 240 |
| cccaaccttg | caggctcttc | gcaagacggc | cctgttgggt | gccaatgggt | cccagccctg | 300 |
| arggcaggga | akgtcaacct | acctgccc | ctgtgctgag | gcatgttctc | gcctaccatc | 360 |
| ctctccctc | ccggctctc | ctcccagcat | cacaccagcc | atgcagccag | caggctctcc | 420 |
| ggatcacagt | ggttkgggtg | aggtctgtct | gcactgggag | cctcargarg | gctctgctcc | 480 |
| accacttgg | ctatgggaga | gccagcagg | gttctggaga | aaaaaactgg | tgggttaggg | 540 |
| ccttgggtcca | ggagccagtt | gagccagggc | agccacatcc | aggcgtctcc | ctaccctggc | 600 |
| tctgccatca | gccttgaagg | gcctcgatga | agccttctct | ggaaccactc | cagcccagct | 660 |

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ccacctcagc cttggccttc acgctgtgga agcagccaag gcacttcctc accccytcat 720
cgccacggac ctytytgggg agtggccgga aagctcccs gcttytgcc tgcagggcag 780
cccaagtcac gactcagacc aggtcccaca ctgagctgcc cacactcgag agccagatat 840
ttttgtagtt tttatkcctt tggctattat gaaagaggtt agtgtgttcc ctgcaataaa 900
cttgttcctg ag 912

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<210> 549
 <211> 563
 <212> DNA
 <213> Homo sapiens

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<400> 549
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gaagtcggcg atccatgaat ctccactact tacttgctgt gatccttatt ggtgctggctg 180
gagtttttgc ttttatcgat gtgtgtcttc aaagaaacca cttcagaggc aagaaggcca 240
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gacttgaggg aggtcctctg tgtctgaaac ggcagtgtat tttacagcaa tatgtttcca 420
ctctcttctc tgtcttcttt ctggaatggt tttcttttcc attttcatta ccacctttgc 480
ttggaaaaga atggattaat ggattctaaa agcctaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaa 563

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<210> 550
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (407)..(409)
 <223> n equals a,t,g, or c

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<400> 550
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aatctttatg gcaaatgccg ttacagatgc tccaagaagg aaagagtcta tgtttactgc 180
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ttttaactgc tttgaagcct gaagccatga aaatgcagat gaagctccca gtggattccc 300
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aagaaaaaaa actcaagggg gggcccggtg cccattcgcc ctatgtnnnt cgt 413

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<210> 551
 <211> 1306
 <212> DNA
 <213> Homo sapiens

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<400> 551
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atcttcaacg cttcctacaa gaagtaccta gataggaggt gggaggaaga gccactcagg 180
accaagactc tgccagcagc tctccttgcc agggagtcta catggctctg aactcgtgtg 240
tctttctttc ccagtcaggc caccttctat ttccttcttc ctactgcctc atttgcaatg 300
ccaccggaag tcaagggccc ctgaggcaag gagaatagca cttcataaag agaaggatga 360
tgaccccgag ggtgtgtggc cctgtgctgc gccattgca gtctctcagc tcagctgctc 420
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ctctgtgtgc cttatggatg tggccaagcg tgaaatcacc tgtgcctttg cccctccggg 780

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aaagggactt ggataacatg gccttccccc aagcactgcc actggagaag agatgtgagc      960
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gccaccgccc tgggatctct gaaaaggagg ttccagccac gaggcagctg cttccaggac     1140
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ggcctctgca gaaccagcaa ggggaaaagt ataactctgg ggaccttcaa ccactaagcc     1260
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<210> 552

<211> 754

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 552

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gacaactgca tagaagccca caacgaatgg cgtggcaaaag tcaaccctcc cgcggccgac     180
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acggccttgg ataataaagc ccaattttat gattttgata gtctatcatg ctccagagtc     420
tgtggccatt atacacagtt agtttgggac aattcatttt atgtcggttg tgcagttgca     480
atgtgtccta accttggggg agcttcaact gcaatatttg tatgcaacta cggacctgca     540
ggaaattttg caaatatgcc tccttacgta agaggagaat cttgtctctc ctgctcaaaa     600
gaagagaaat gtgtaaagaa cctctgcaaa aatccatttc tgaagccaac ggggagagca     660
cctcagcaga cagcctttaa tccattcagc ttaggttttc ttcttctgag aatcttttaa     720
tgtcatttat atacaaaaga aattctcaaa tggt                      754

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<210> 553

<211> 1028

<212> DNA

<213> Homo sapiens

<400> 553

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gcatgatcct gtggaacaca gtttgggac atagatgtga attaagacac caccgagata      60
cgggctgtga gggttcatacc gtgctgatag cactcgtggt gtctgtgaaa tgtgggtaag     120
acattcaaac ctgggttttga tactggaaac tcttccttta aaactgtgac catgatttca     180
ttcagccctt ccacaccctt atgtctgcct tgtttcagag tgagttttct atggagcctg     240
tggccctttt gcagcccacc tgggtggctt ttaatgtaac tcttcccctg gtcgcctgga     300
gtggaccact catctgcagg cctctcctgc atggggaggg taggcaggga gcagcatgtc     360
tgcaggggtg aacctttgct cttctgtcag gcgaggccca ggctgcacca gccacctgcc     420
acatgggtgac agtgccacgg gccctgcgta tggcccctgc aaccgtgctc tggcgggcac     480
acctggctgc tgcaggccaa ggccgctgtt cagtgaagag tcccatgttt agtatggact     540
aaagtcccat gtttagccay tgcccagtc tcccgtagcc ccagaaacca ggtcactgga     600
ccacagtgcc agatcctcat cagccggtg agcacctaga agtgagaaca ctgtattcct     660
acaatgtaca cttggatatt tctccttatt tagtttctag tgaaacaaat caagttagga     720
actatcttta gtttagatgg aattatttgt ttttaattgt tgccgtattc atctatatag     780
ctaataattc aagataagta atgaacaaaa cctgtctaaa ccttttgttt ccaatgaatg     840
aaagtcatgc actttattta taggctctat gtttggcctt ctgcagtact tttattatct     900
atacataatt tggcaaaaaa taagaaattg gaaagaatga aatgtttagt ttatagtaga     960
agaaagatga tgacactaag ttgtgaaaat atgttgtgat ttttatgaaa taaactcacg    1020
gcacgtag                                           1028

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<210> 554

<211> 450
 <212> DNA
 <213> Homo sapiens

<400> 554
 tttttttact cgaaaaaatg tttaatagaa tttaaaattt taacttcagg gaatttggaa 60
 gttcaatcat tctcaaagag gctgtaagga tgattaaaat cctgaaggaa gccattgaag 120
 aaacttcctt ctgctctttc tggaggatct cttttcaatt atctattcat catatatctt 180
 ttatcttctg tgcacaattg acaactcttc tttacagcac attcctctty attcccatct 240
 cttggtttct gattgttctt ggggctgtgg ataaaacccat tctctgagaa gctgataagc 300
 aattggatga gaaagargga gargaaaact ggcaggarga tctggsccca tgcccgcagc 360
 cagcacatct ctcttcagac ctggtgaccc cagccactgg gaacctggca ggcaccagct 420
 acagtgttgg acactgctcg tgccgaattc 450

<210> 555
 <211> 978
 <212> DNA
 <213> Homo sapiens

<400> 555
 ggcacgagcg gtttccgcgg tggccatgac tgccggccgtg ttcttcggct gcgccttcat 60
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 catcttcctc atcgccggag ctttcttctg gttggtgtct ctactgattt cgtcccttgt 180
 ttggttcatt gcaagagtca ttattgacaa caaagatgga ccaacacaga aatatctgct 240
 gatctttgga gcgtttgtct ctgtctatat ccaagaaatg ttccgatttg catattataa 300
 actcttaaaa aaagccagtg aagggttgaa gagtataaac ccagggtgaga cagcaccctc 360
 tatgcgactg ctggcctatg tttctggcctt gggcctttgga atcatgagtg gagtattttc 420
 ctttgtgaat accctatctg actccttggg gccaggcaca gtgggcattc atggagattc 480
 tctcaattc ttcttttatt cagctttcat gacgctggtc attatcttgc tgcattgtatt 540
 ctggggcatt gtattttttg atggctgtga gaagaaaaag tggggcatcc tccttatcgt 600
 tctcctgacc cacctgctgg tgtcagccca gaccttcata agttcttatt atggaataaa 660
 cctggcgctca gcatttataa tcctggtgct catgggcacc tgggcattct tagctgcggg 720
 aggcagctgc cgaagcctga aactctgcct gctctgccaa gacaagaact ttcttcttta 780
 caaccagcgc tccagataac ctccagggaac cagcacttcc caaacgcag actacatctt 840
 tagaggaagc acaactgtgc ctttttctga aaatcccttt ttctggtgga attgagaaag 900
 aaataaaact atgcagatat gcaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
 aaaaaaaaaa aaaaaaaaaa 978

<210> 556
 <211> 1075
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (79)..(79)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (604)..(604)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (656)..(656)
 <223> n equals a,t,g, or c

<400> 556
 gtgtcgcagc tctcttcgac gtacctgtcc tcaggagccg cggcggcgac tgcgcctcgg 60
 acggccgctg gggccgagna accatgagcc ccaggggcac gggctgtctc gccgggctgc 120

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|------|
| tgatgactgt | cggtctggctg | cttctggcgg | gcctccagtc | cgcgcgcg | accaaactca | 180 |
| ccgctgccgt | ccaggatgcc | ggcctggccc | acgaaggcga | ggcgaggag | gagaccgaaa | 240 |
| acaacgacag | cgagaccg | gagaactacg | ctccgcctga | aaccgaggat | gtttcaaata | 300 |
| ggaatgtcgt | caaagaagta | gaattcggaa | tgtgcaccgt | tacatgtggt | attgggtgta | 360 |
| gagaagttat | attaacaaat | ggatgccctg | gtgggtgaatm | caagtgtggt | gtacgggtar | 420 |
| aagaatgccg | tggaccaaca | gattgtggct | ggggtaaacc | aatttcagaa | agtcttgaaa | 480 |
| gtgttagatt | ggcatgtatt | cacacatctc | ccttaatcgt | ttcaatatat | gtggaactty | 540 |
| taagacagac | cacaatccat | tatacttgta | aatgattcag | caatcctaga | agtacgcaag | 600 |
| gaangtcacc | ccttgctttc | gagtgtgaca | cactggataa | taatgaaata | gtagcnacta | 660 |
| ttaaattcac | agtcctatac | agcagtgaat | tgcagatgag | aagatcaagc | ctaccagcca | 720 |
| ctgatgcagc | cctaattttt | gtgctgacca | taggagtcac | tatctgtgta | tttataattt | 780 |
| tcttattgat | cttcataatc | ataaattggg | cagcagtcac | ggctttctgg | ggggcaaaaag | 840 |
| cctctacacc | tgaggtacaa | tccgagcaga | gttctgtgag | atacaaatgat | tcaacttctc | 900 |
| ttgaccaatt | accaacagaa | atgcctgggt | aagatgatgc | tttaagtga | tggaaatgaat | 960 |
| gatgtttgaa | tgatatataa | caaaccagag | gatattacag | aatattagat | tcattattac | 1020 |
| aaaaataaaa | tacacattga | aatacttta | aaaaaaaaa | aaaaaaaaa | ctcga | 1075 |

<210> 557

<211> 738

<212> DNA

<213> Homo sapiens

<400> 557

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ggtacaggac | tgagaagcag | ataacaagag | tgacgctcac | agggctgggc | tgacgctaac | 60 |
| aggaggcagt | gtgtggctcg | aagattcttg | aacccacagc | agcagctg | gccaccccat | 120 |
| cctgcccaca | gctccagccc | tgagacgacg | aggaggagag | tcgactttgc | ctcttgccca | 180 |
| agggaccatg | cccagggtgcc | ggtggctctc | cctgatcctc | ctcaccatc | ccctggccct | 240 |
| gttggccagg | aaagacccaa | aaaagaatga | gacgggggtg | ctgaggaaat | taaaacccgt | 300 |
| caatgcctca | aatgccaacg | tgaagcagtg | tctgtggttt | gccatgcaag | aatacaacaa | 360 |
| agagagcgag | gacaagtatg | tcttcctggg | ggtcaagaca | ctgcaagccc | agcttcagg | 420 |
| cacaaatctt | ctggaatacc | ttattgatgt | agaaattgcc | cgcagcgatt | gcagaaagcc | 480 |
| tttaagcact | aatgaaatct | gcgccattca | agaaaactcc | aagctgaaaa | ggaaattaa | 540 |
| ctgcagcttt | ttggtaggag | cacttcctcg | gaatgggtga | ttcactgtga | tggagaaaaa | 600 |
| gtgtgaagat | gcttaatggg | gttttgaggc | atccctccaa | cctctgtgac | tactttatcc | 660 |
| atgaaaatga | agcaatggca | ggtgggaggc | tcttcccaat | gtgctttctt | caaaaaaaaa | 720 |
| aaaaaaaaaa | aaaaaaaaa | | | | | 738 |

<210> 558

<211> 752

<212> DNA

<213> Homo sapiens

<400> 558

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gatcaaatcc | tgaagtggta | catgtcacta | ctgttcatag | tctctttgct | ggaacttggt | 60 |
| cctatggccc | tactggcaga | gaggaaggct | atgaaaccca | gtctaggcct | gcgctagaa | 120 |
| gaagaagaag | aagaaacacc | ttttgaagaa | cagagagcag | tctctgtcat | accagggrta | 180 |
| cctgtcacat | acttgtagaa | caaaaataag | taacatttta | attattgaaa | caatgtaaca | 240 |
| acttttaaca | cagtttcata | actaggagtg | aatcacccat | aatctcatal | ccggaacaaa | 300 |
| atatctgtta | gtatgatgca | cctttacata | gctgtaatct | taaagggcat | gtacttcctt | 360 |
| ctttgctttc | cttttttttt | ttcttcaccc | ttccctctct | tccctctctc | cctctctccc | 420 |
| ttctctccct | ccttctttct | ttctctccct | tctttctgat | tttctaactt | ccttctttta | 480 |
| acattccttg | atcgtctgtg | ggtctggaca | gcaacatgga | gatcaattag | gcgagcatt | 540 |
| ttaaatttgc | cctcaagaag | ttccactagt | gtaagagtag | gcaagtaacc | aattattaca | 600 |
| atagtgggac | aagcgctgtg | atagaaataa | atacagagta | ctgtggcagt | ccttaccag | 660 |
| aaaaagatat | ctagggtaga | tggtatctga | actgagaatt | aaagaataaa | tagaagatag | 720 |
| catggcaaaa | aaaaaaaaa | aaaaactcgt | ag | | | 752 |

<210> 559

<211> 1748

<212> DNA

<213> Homo sapiens

<400> 559

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| ggcacgagta | aagacaaaaat | aaattcttct | gtccacttat | ttacctaaca | tacacttgct | 60 |
| tccttggaag | tcataggcat | ccacatatct | tcagccacaa | cttggtatct | ctaataataat | 120 |
| tcttattttt | gaactcctaa | actttctggt | agaaatcttc | agttgaaaat | atcctggcaa | 180 |
| gtaaaattag | aaactcccag | aaatgtactt | atttctatta | tgttgtttta | tttctgaaca | 240 |
| ttgtgcccc | cattcttttc | cacatacttg | cccaaattgg | aaaactaggg | ttctaagttt | 300 |
| ccccctccat | ccatgcccac | atttaattca | ccctaataat | acctgacatc | tttcaagttc | 360 |
| atthttctact | atctatcccc | acgcaggcca | tatctgggtt | gaagcttcat | tatctctata | 420 |
| gattaaaaac | aaaaacaaaa | tgcatacaag | caaaacaaat | aacatacaaa | caaaacccac | 480 |
| ctaactcatc | tttatgtagt | cagtcctccc | tcaatagttt | ggccaaactt | cctaaaccga | 540 |
| aatctgattg | tgactatccc | cttctaaatg | tatttaataca | gcatacccct | tcaataaatc | 600 |
| cattaaccgt | tcttggtatc | caagacagtt | tgctatctgt | cttgataaac | aagttgcaga | 660 |
| ctccatccaa | tgccattttc | ccctagaaat | atagataatg | gcactatagg | aacaatgatc | 720 |
| tccacatgcc | tcattgcatg | gtaatttttt | taacctttgc | tagaaatggt | ctgctccact | 780 |
| ctactcatcc | accaccattt | ctactccacc | ttacactacc | tcttttccca | tttagatctt | 840 |
| ccattctata | tctccttgca | tgaaattgtc | catacctgct | tagtactcat | ctcattatct | 900 |
| tgctattgtg | cgcatactcg | ttcatatgat | ttcttatgga | agttattaag | tattttgatt | 960 |
| tctgtttcag | tcagattttc | aacagagaag | tagaaccagt | agaaaatata | tcttaagata | 1020 |
| cttattggag | ggaattaact | tacatggttg | tggaaccggg | catagccgac | ctaaaattta | 1080 |
| tatggctgac | tatcaaaaaa | gacaggctgg | aactcttagg | cacaggcaga | agttgcagtt | 1140 |
| caaggtgaa | atthgttctt | tatcctggaa | gcctgggctc | tgctctttag | atttagcagc | 1200 |
| tgactgaatc | aagtcacact | agattaccta | ggataatctt | gtttacgatt | atgattatca | 1260 |
| ctaccagtta | tcaactgatt | ttgaacttca | ttcacatcta | caaaatacct | tcataggaac | 1320 |
| atctagatca | gtgttggtg | aaataactat | cagctgtagc | ctagccatgt | tgacccatca | 1380 |
| aaagaccatc | acaattgctg | atataacttt | aataaaattt | gcaacatttt | cagatggaag | 1440 |
| aattgagaaa | aggggaagcgg | gctgactttt | catttttagaa | tttattatgc | attaacttaa | 1500 |
| agtaagtaat | aattatgtag | gtgatcattt | tgatatttta | acctacttaa | tttagaaaat | 1560 |
| cattttaaata | catttttggt | aagactacaa | aatgattttg | ggtaaaaaaa | aattttacca | 1620 |
| aatatcaaga | tcacaataat | cactttaaata | agttacatat | gtaactaacc | tgcaaatgt | 1680 |
| gtacatgtac | cctaaaactt | aaagtataat | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1740 |
| aaaaaaaaa | | | | | | 1748 |

<210> 560

<211> 1094

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 560

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|------|
| naccattga | gcagaaggag | gccagggtgg | aaagctcctg | ggaagagcag | ccagactgga | 60 |
| cactgggctg | cttgagtcct | gagtcacaat | tcagaattcc | tgggctccct | gggtgcattc | 120 |
| tatcattcca | gttgaaagt | tgcttccttc | cagtcattgt | gctcttcatt | ctactctcct | 180 |
| tggtctctcat | ttcagatgcc | atggatcatg | atgaaaagg | caagagaagc | tttgtgctgg | 240 |
| acacggcttc | tgccatctgc | aactacaatg | cccactacaa | gaatcacccc | aaatactggt | 300 |
| gccgaggcta | tttccgtgac | tactgcaaca | tcattgcctt | ctccccctaac | agcaccaatc | 360 |
| atgtggccct | gagggacaca | gggaaccagc | tcattgtcac | tatgtcctgc | ctgaccaaag | 420 |
| aggacacggg | ctgggtactg | tggtggcatc | agcgggactt | tgccagggat | gacatggatt | 480 |
| ttacagagct | gattgttaact | gacgacaaag | gaaccctggc | caatgacttt | tggtctggga | 540 |
| aagacctatc | aggcaacaaa | accagaagct | gcaaggctcc | caaagttgtc | cgcaaggctg | 600 |
| accgctccag | gacgtccatt | ctcatcattt | gcatactgat | cacgggtttg | ggaatcatct | 660 |
| ctgtaatcag | tcatttgacc | aaaaggagga | gaagtcaaag | gaatagaagg | gtaggcaaca | 720 |
| ctttgaagcc | cttctcgcgt | gtcctgactc | caaaggaaat | ggctcctact | gaacagatgt | 780 |
| gactgaagat | ttttttaatt | tagttcataa | agtgatgcta | caacagaata | atcaccatga | 840 |
| caactggccc | acacctcaga | gactgattct | gatctcccag | gaattctgaa | ggacctctta | 900 |
| tccttgacaa | caatcatttg | cagccaggta | gcaacggcgg | tagtcagagg | agctatgata | 960 |
| gaccacaccc | aagcaaggct | gccctcaa | aacatctcaa | gatcttagtt | cttatgcatt | 1020 |

ccatcagtca gaagtgaaga agaggtggag aatctggatt ggggaccagg aaatcacttg 1080
tattttgtta gccca 1094

<210> 561
<211> 531
<212> DNA
<213> Homo sapiens

<400> 561
gttctaattc actgcccaca gccctgctga taaaagcaaa gctcatctct gccgtgctgc 60
agggaaacct atttccttcc cctgcagctc agccacctcc tcctctcagg tctgccagcc 120
atgaaacttc tttacctgtt tcttgccatc cttctggcca tagaagaacc agtgatatca 180
ggcaaacgcc acatccttcg atgcatgggt aacagtggaa tttgtagggc ctcttgcaaa 240
aagaacgaac agccctacct ctattgcaga aattgtcagt cctgctgcct ccagtcctac 300
atgaggataa gcatttctgg caaagaggaa aataccgact ggtcttatga gaagcagtgg 360
ccaagactac cttgagtgtt ggtgattacc attctcaagc tctctgggca cagagacctg 420
ctgtcaaccc ccctcattaa aattcatgtg cctgctaaaa aaaaaaaaaa aaaaaaaaaa 480
aaamaaaaaa aaaaaaama maawaamwaa amawaaaaaa aaaaactcga g 531

<210> 562
<211> 813
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)..(16)
<223> n equals a,t,g, or c

<400> 562
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ccgcttcaac agccccctgg acaagaccaa cagccttata tggaccacga ggaccacaag 120
gaccaccaa gactcagcct ttcacatcat gtccacagag agcccaggca tcgagtggct 180
ctgtctggag aatgccccat gctatgacaa tgttcccaa ggcattcttg cccctgaatt 240
cttcttcaag gtgttggtga gcaatagagg agtggacacg agcacctact gcaactacca 300
gtcaccttc ctgctgcaca tccacgggct gccactcagt cccaagcggg cccttttcat 360
catcatgggt tcagctagcg tgtttgtggg cctggtgatc ttctacatcg ccttctgcct 420
cctgtggccc ctggtggtga agggctgcac gatgatccgg tggaaagataa acaacctcat 480
tgccctagaa tcctactaca cctacgcctc catttccgga atctcgagca tgccatctct 540
gagacattcc aggatgggct ccatgttcag ctccaggatg acagaggaca gggctgaacc 600
caaggaagcc gtggagagac agttgatgac ctgagtgtcc cacctgcccc agccccagt 660
tactgtcagc cctctcttat gaggcccatc ttgaagatgc aacctgtcac ccagcccagg 720
cctctctttc tgttttgcct gatgtttact tctcgttcag actcaaataa agcctttttt 780
caggacccaa aaaaaaaaaa aaaaaaactc gag 813

<210> 563
<211> 1713
<212> DNA
<213> Homo sapiens

<400> 563
ggcacgagca cagataaaga taagttttac tgtcatgctg cttttaacat aacagagcaa 60
catcacctag gaaaaaagtt tgtaggagga tttttaatcc atatatttgt cttatggcta 120
gataaagatt tctctgaaaa aaagaagcat gtcaggaatc tctgggtgcc cttttttcct 180
ctggggactt ctagcattgt tgggcttggc tttggttata tcaatgatct tcaatatttc 240
ccactatgtg gaaaagcaac gacaagataa aatgtacagc tactccagtg accacaccag 300
ggttgatgag tattatattg aagacacacc aatttatggt aacttagatg .atatgatttc 360
agaaccaatg gatgaaaatt gctatgaaca aatgaaagcc cgaccagaga aatctgtaaa 420
taagatgcag gaagccacc catctgcaca ggcaaccaat gaaacacaga tgtgtacgc 480
ctcacttgat cacagcgta aggggaagcg tagaagccca ggaaacagaa tactcatttc 540
tcagacaagg atggagatga gcaactacat gcaatagatg ccagcgtttc taaaccacct 600

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------|
| tagtagacag | tttctccccg | aaagccaggc | gtagaggaaa | acattcatga | tgatcccatc | 660 |
| gactgtttgg | attgatccgt | gctaagagaa | acctattaac | tagctggacc | atgatctgtt | 720 |
| caatgattgg | ctcctattga | agatggcttc | taagaaaaca | agatgcacag | aggacacaga | 780 |
| aggacttggc | agcaggggtga | tgacctgac | atttgttgat | gggatgggtg | cttacctctt | 840 |
| attcacagct | tacacttatg | catgccaaat | gtaaggccat | gaaaatcagt | atttcaaata | 900 |
| acttaaaaaa | tgctttacta | ctaaaatgta | aaaaattaat | gtgctcacct | cggcagcaca | 960 |
| tatactaaaa | attaataaga | cccagcttga | aaattgagcc | tgataacaag | attacaaatt | 1020 |
| cacaatacct | aatacttagg | gaaatataaa | aatttaagca | tgaatgtgtt | ctggaacacg | 1080 |
| ttagaagaaa | aataaaagcc | aatgagtttt | tttttaattc | tcctttctca | ccaatgggca | 1140 |
| atagcccata | attgaaataa | atttctgatt | gaaaggata | ggaaacatta | aaatgcatta | 1200 |
| ctaagagaag | taatataatt | ttcttataaa | gtatttttcc | caaagatagc | tttactattt | 1260 |
| caaaaattgt | caaattaatg | catgctcctt | acaacaaaca | aatatcaaaa | agagtttagg | 1320 |
| aattctacta | gccagagata | gtcacttggg | gaaactttct | atatatcctt | ctaaatattt | 1380 |
| ttctgggcat | gcttatgtat | gtacatcagt | tgtttctttt | tattttgaac | caaaaatgtg | 1440 |
| gtttcttttg | tacacattac | ttaaactttc | tttccagtca | acaatatatt | gtggatttat | 1500 |
| tttactgtt | atatttaact | atatataaat | acgcataat | tgtaatttta | atgtctgctt | 1560 |
| agcacccac | tgataaccaa | atcacagttt | atttaaataa | ttttaatgac | ttttcaaaaa | 1620 |
| caattttattg | atgcaaaaag | caaggttgag | atgacaatgt | ttctttcaat | aattaaaaaa | 1680 |
| tactgcttca | ctgtcaaaaa | aaaaaaaaaa | aaa | | | 1713 |

<210> 564

<211> 703

<212> DNA

<213> Homo sapiens

<400> 564

| | | | | | | |
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| cagcatggac | cacggttgct | gggaggatgg | ggagcgtcta | tggtcagttg | ccttagaagt | 120 |
| ggtgagatgg | gaagctgcag | ttggaagacc | ctggaggatg | cctgacaagg | ggatgtctga | 180 |
| cacatgattg | gagctctttt | tgaaatgttt | cttgcccttc | ctggagcaga | ggagccatta | 240 |
| tttatgcagg | tacatcgaag | tcttttgacc | tccatacagt | gattatgctt | gtcatcgctg | 300 |
| gtggtatcct | ggcggccttg | ctcctgctga | tagttgtcgt | gctctgtctt | tacttcaaaa | 360 |
| tacacaacgc | gctaaaagct | gcaaaggaac | ctgaagctgt | ggctgtaaaa | aatcaccaacc | 420 |
| cagacaaggt | gtggtggggc | aagaacagcc | aggccaaaac | cattgccacg | gagtcctgtc | 480 |
| ctgccctgca | gtgctgtgaa | ggatatagaa | tggtgcccag | ttttgattcc | ctgccacctt | 540 |
| gctgttgcca | cataaatgag | ggcctctgag | ttaggaaaag | tgggcacaaa | aatcttcatg | 600 |
| agcaataactt | cttagtagat | tgttttgtta | ttcaaatcaa | gttctagtgt | ttttatgtga | 660 |
| gattatataa | tttacagtgt | tgttttatat | acttttgaat | aaa | | 703 |

<210> 565

<211> 848

<212> DNA

<213> Homo sapiens

<400> 565

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|-----|
| ggcacgagca | ctactgtaag | agctggtcag | tgaatgtggt | tgcagcatgg | cctttgggca | 60 |
| agaagtaacc | catttaacta | aaaccagctg | gttgccccca | ctcagattta | tcaaagggtt | 120 |
| actgggtccc | tgggggtgga | tattgcttat | attagactta | gaatagcata | ctgttttaat | 180 |
| atttatatgaa | ctaaaatggt | tctttaaaaa | aagagtggtc | tgtaaatgga | tttatgtagt | 240 |
| ggtcaagaat | ttagacttca | gagtcaaaata | aacctatata | agtcctagtc | ctacagttta | 300 |
| ctaattgtga | gatgtcaagc | aagtttttga | actcctctaa | gcctctgttt | tcttatctat | 360 |
| aaattaataa | atgaatgaat | cgggttgagt | gaatatttag | taaattctta | gtacatacta | 420 |
| gttatttgta | actgtgagac | tggttttttg | gtatggtttt | cacatttggg | agtagaaata | 480 |
| ccacttccta | aagtctgttt | tatctcaaat | tctctatcca | ggcatagtgt | aaagtgaat | 540 |
| acctagattt | cttgattaat | atacagataa | tggccagacg | ccatggctaa | aacctgtgac | 600 |
| gctagcactt | cgggaaggctg | aggcggggcg | atcacttgag | gtcaggagtt | ggagaccagc | 660 |
| ctggcaaaaca | tggcgaaacc | ctgtctctac | taaaaatata | aaaattagct | ggatgtgggtg | 720 |
| gcagggtgtct | gtaatcccag | ctacttagga | ggctgagaca | ggagaactcc | ttgagaattg | 780 |
| ctccactgcc | ctccagcctg | ggcaacagag | tgagacactt | catctcaaaa | aaaaaaaaaa | 840 |
| aaaaaaaaa | | | | | | 848 |

<210> 566
 <211> 1818
 <212> DNA
 <213> Homo sapiens

<400> 566
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 cctgtgctgg tgtactctga ggcgcgattg tgtgaaagggt gggctaagggt gcctgttcga 180
 ccacatcctc actggttagac tgggtcacca cagttttgga aaggtagagaa atggtatcta 240
 aacatagttt gaatttgcatt ttcttttact ggaaggaggag ctgcgcgtgt ttcacatcag 300
 agccacgtgt gtttgtgggt gttgaacttt ctctcttgga ttgctaggag tgctttatgt 360
 attagggaaag cagacttccc taatgcgtga taacgcacgc agatactgtt tccaagtttt 420
 tgttatttgt cttttaaatt tgtttttgca tttgtctttt cactttgatt tttgccaggc 480
 tggagttttg atgtttatgt ggtcatagggt gtgaatattt tcttttgggt cttctggatt 540
 ttgagacaca gtggctatag aaccactata gccaaaagtt atgtttgctt ttgggttcat 600
 atactttgct ttggctcctgt ctctctgact ttatttataa tagtaagata ttcttactac 660
 atttttccat tgcccatagc tgggaaggaga ttgcaattat caccaaagat gaaaaactaa 720
 ggcattgtct cagcagaggc agatttagact ttaagttaga ggcttgcctt tgggtgcagag 780
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 ggtgggagag agggccttca gtgactgtac caaagactca cagacactgg gtgtcttggg 1440
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 gcattggtgtc tcacgccagg aatcccagca tgttgggagg ctgaggttgg gggatcggat 1740
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 aaaaaaaaa aaaaaaaaa 1818

<210> 567
 <211> 1632
 <212> DNA
 <213> Homo sapiens

<400> 567
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 ctctgctcgg cctggctgtg ggctcctact tgggtcggag gtcccgcgg cctcaggtca 180
 ctctcctgga ccccaatgaa aagtacctgc tacgactgct agacaagacg actgtgagcc 240
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 gcctgggtcat caggccatac actcctgtca ccagtgtatg ggatcaaggc tatgtggatc 360
 ttgtcatcaa ggtctacctg aagggtgtgc accccaaatt tcctgaggga gggaagatgt 420
 ctacgtacct ggatagcctg aagggtgggg atgtggtgga gtttcggggg ccaagcgggt 480
 tgctcactta cactggaaaa gggcatttta acattcagcc caacaagaaa tctccaccag 540
 aaccccgagt ggcgaagaaa ctgggaatga ttgccggcgg gacaggaatc accccaatgc 600
 tacagctgat ccgggccatc ctgaaagtcc ctgaagatcc aaccagtgct tttctgcttt 660
 ttgccaacca gacagaaaag gatcatctct tgcgggagga cttagaggaa ctgcaggccc 720
 gctatcccaa tcgctttaag ctctggttca ctctggatca tccccaaaa gattgggcct 780
 acagcaaggg ctttgtgact gccgacatga tccgggaaca cctgcccgt ccaggggatg 840
 atgtgctggt actgctttgt gggccacccc caatggtgca gctggcctgc catcccaact 900
 tggacaaact gggctactca caaaagatgc gattcaccta ctgagcatcc tccagcttcc 960
 ctgggtgctgt tcgctgcagt tgttcccat cagtactcaa gcactataag ccttagattc 1020

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| ctttcctcag | agtttcaggt | tttttcagtt | acatctagag | ctgaaatctg | gatagtacct | 1080 |
| gcaggaacaa | tattcctgta | gccatggaag | aggccaagg | ctcagtcact | ccttggatgg | 1140 |
| cctcctaaat | ctccccgtgg | caacagggtcc | aggagaggcc | catggagcag | tctcttccat | 1200 |
| ggagtaagaa | ggaagggagc | atgtacgctt | ggtccaagat | tggctagtgc | cctgatagca | 1260 |
| tcttactctc | accttctttg | tgtctgtgat | gaaaggaaca | gtctgtgcaa | tgggttttac | 1320 |
| ttaaacttca | ctgttcaacc | tatgagcaaa | tctgtatgtg | tgagtataag | ttgagcatag | 1380 |
| catacttcca | gaggtggtct | tatggagatg | gcaagaaaag | aggaaatgat | ttcttcagat | 1440 |
| ctcaaaggag | tctgaaatat | catatttctg | tgtgtgtctc | tctcagcccc | tgcccaggct | 1500 |
| agagggaaac | agctactgat | aatcgaaaac | tgtgtttgt | ggcaggaacc | cctggctgtg | 1560 |
| caaataaawr | kgctgaggcc | cctgtgtgat | attgaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1620 |
| aaaaaactcg | ag | | | | | 1632 |

<210> 568

<211> 1061

<212> DNA

<213> Homo sapiens

<400> 568

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| gaatgaaaga | tggctttatt | ctcttgtttg | ctcttattaa | agcaatcaga | tgggtgcttct | 120 |
| cctgtactca | gagccctggc | tgcttctctg | ctggcctctc | ctgcccgtcg | ctgtggaacc | 180 |
| agaaaagcct | taaacggaaa | tgtgggagag | aagggtggat | tacttttcat | gtctttccag | 240 |
| ggttgtgacc | cctcaagtcc | tggttgcctt | tgctgttctc | tattaccttc | aaacagccag | 300 |
| ctcgtcttta | tttctttttt | agttttgtcg | gggttggctt | gatagatgtt | agtccatcat | 360 |
| agccagatgt | gtctagcctt | gtcttttgaa | tgcaagattt | aggatgtggg | tacttagctg | 420 |
| ttagtggaca | tcagagtcac | tagtcaggat | gaaagagttc | ttggctttta | ctcccagaaa | 480 |
| ttctggtaac | gtcatgtata | gtgacggccg | catgtctaac | agggtggccag | gtaagtcttt | 540 |
| tgggggtggc | tgtgaatcac | agtttgggag | acattgactt | ttagggagtt | tgttctgaat | 600 |
| tcactagata | atagagatat | aatacacagc | tttgaaagct | ggtgtcttga | tgacagagcc | 660 |
| gtggcaatgg | ggagggttga | ggagggtgct | gttgggcctg | tctcctgggtg | agagttgaaa | 720 |
| gggcctgaac | tcaagcagag | gcctcagaac | cgaaggttgg | tggaaaggatg | cagcaagagg | 780 |
| cggcacacag | gagtactctg | cgccctggca | gggtctgaat | acacgtggga | gtggtgagag | 840 |
| ggagaacttt | aagtccagg | tttgtgcctc | agtgacttag | tgtggccata | tcattagaaa | 900 |
| tgtgttgagg | ccgggcacag | tgggtcatgt | ctgtaatccc | agcactttga | gaggctgagg | 960 |
| caggaggatg | gcttgaggcc | aggagttaa | aaccagcctg | gacaacatag | tgagagcctg | 1020 |
| tctctacaaa | aaaaaaaaaa | aaaaactcga | gggggggccc | g | | 1061 |

<210> 569

<211> 1650

<212> DNA

<213> Homo sapiens

<400> 569

| | | | | | | |
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| ggaacctcat | caacgctgac | ttctgcgtgg | cctctgtctg | cgtggccttt | ggggcagttc | 60 |
| tgggtaaagt | cagccccatt | cagctgctca | tcattgactt | cttccaagtg | accctcttcg | 120 |
| ctgtgaatga | gttcattctc | cttaacctgc | taaagggtgaa | ggatgcagga | ggctccatga | 180 |
| ccatccacac | atttggcgcc | tactttgggc | tcacagtgc | ccggatcctc | taccgacgca | 240 |
| acctagagca | gagcaaggag | agacagaatt | ctgtgtacca | gtcggacctc | tttgccatga | 300 |
| ttggcaccct | cttcctgtgg | atgtactggc | ccagcttcaa | ctcagccata | tcctaccatg | 360 |
| gggacagcca | gcaccgagcc | gccatcaaca | cctactgctc | cttggcagcc | tgctgtctta | 420 |
| cctcggtggc | aatatccagt | gccctgcaaa | gaagggtgaa | ctggacatgg | tgacacatcca | 480 |
| gaatgccacg | ctcgcaggag | gggtggccgt | gggtaccgct | gctgagatga | tgctcatgcc | 540 |
| ttacggtgcc | ctcatcatcg | gcttcgtctg | cggcatcatc | tccaccctgg | gttttgtata | 600 |
| cctgacccca | ttcctggagt | cccggctgca | catccaggac | acatgtggca | ttaacaatct | 660 |
| gcattggcatt | cctggcatca | taggcggcat | cgtgggtgct | gtgacagcgg | cctccgccag | 720 |
| ccttgaagtc | tatggaaaag | aagggtctgt | ccattccttt | gactttcaag | gtttcaacgg | 780 |
| ggactggacc | gcaagaacac | agggaaagtt | ccagatttat | ggtctcttgg | tgaccctggc | 840 |
| catggccctg | atgggtggca | tcattgtggg | gctcattttg | agattaccat | tctggggaca | 900 |
| accttcagat | gagaactgct | ttgaggatgc | ggtytactgg | gagatgcctg | aagggaacag | 960 |
| cactgtytac | atccctgagg | acccacactt | caagccctca | ggaccctcag | taccctcagt | 1020 |
| acccatgggtg | tcccacttac | ccatggcttc | ctcgttacc | ttggtaccct | aggtccccc | 1080 |

```

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cgtggcagcc tccaggaata aacattcttg ttgtcctttg taaaatgggt tgaatgctcc 1560
aatggggcca gtttgaggga gaaaaggacc caagagacct gcttctgcc cagcccttac 1620
cttcatccaa ggtaccaac cactgcga 1650

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<210> 570

<211> 2762

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2711)..(2711)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2730)..(2730)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2752)..(2752)

<223> n equals a,t,g, or c

<400> 570

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tgggtgccgc ggctgcgctg gggctgggtg ctccccggac cagcgggtgca gtcccgccaa 180
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tcagcttcag ccccgagcgg gagatccgca acgtggagct gctgaagctg cgctttggcg 1680
aggccccaat gcacttctgt gaagtcagtc tgaaggacat ggcggactcc cgccgcatca 1740

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atgccaacat ccgggaggag gatgagaagc ggccagcaga ggagcagcca ccgttcgggg 1800
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tccccgagga tatcagggca gccctggagg cttactgcaa gaagtatgag cagctcaagg 1920
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tgtcccagaa tgcactgctg aggagcatgc ccacccccac ccccgagtg tgagatttaa 2640
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aaaaaaaaa naaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2760
at
2762

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<211> 956
<212> DNA
<213> Homo sapiens

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cccccatgtg gccactgtcc tcagacagct cctggagctt gtggataaagc actggaatgg 180
ctccggctcc ctctctctca acaagaagtt tctcggctct gcccgagatt tcttctgttc 240
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gagcttgccc agctgaaaaa gctggagaag acagttgcca ttctccatga aagtcagaga 600
tccctgggtg taactaatga gtatctgtcg cagcagctga ataaggagcc aaaaggttat 660
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gggaaaagca cgttgtcttc ctctcacca gtggcacatg agactggtca gtatctaata 780
cagagcgtct tggatgctgc cccagagcct ggcttataga gctagcatgg aactcacacc 840
acagcttccc tggtcacagc aggstctcac cgccattgca ccagtatggt ggtatgtact 900
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<210> 572
<211> 1216
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1070)..(1070)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1087)..(1087)
<223> n equals a,t,g, or c

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<220>
 <221> misc_feature
 <222> (1090)..(1090)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1157)..(1157)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1193)..(1193)
 <223> n equals a,t,g, or c

<400> 572
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 aagacctgat ggccggtgtc tggaacacca ttgctttatg gtttttgagt gtttttgagg 180
 tcatttcagc cccacgact gggaccagtc caaccagctg cagggtgctg gggccgagggc 240
 ctccaggctg tgggcccagcc ggctgacgga tgactccatg aggctcttgc aggacaagga 300
 ccagctgacg caccasatgc aggagggcac ctgccggaac ctgggcccaga ggctgtcgga 360
 cattggcttc tggaagtcag agctgagcta tgagctggac aggcttctga ctgagaacca 420
 gaacttgagg acggtcaaga ggcggmtgga gtgcgcggcc aatgaggtga actgcccatt 480
 gcaggtggcc ttggagtgtc tgtaccatcg agagaagagg attgggattg atttgggtcca 540
 tgacaacgtg gagaaaaacc ttatccggga agtggatttg ctaaaatggt gccaagaaca 600
 gatgagaaaa ttagctcaaa gaattgatat ccagatgcgg gataaccggg atgctcagca 660
 cgtgctggag agggacctcg aagacaaaag ctgggccag tgtatcgat agaagtgtt 720
 taacctgaga aatacgtcag actgcatcag cttcttccac ggcatggaga aaattgacgg 780
 cacgatctcc gtacctgaga cctgggccc aa gttcagtaac gacaacatca aacactcttc 840
 agaacatgcy ggccaaytcc atccrgytgc gggaggaggy ggagcacctc tttgagacct 900
 tgtcggatca gatgtggagg cakttcacag acaccaacct ggccctcaac gcccgcattc 960
 ctgaggtgac ggatgtgaaa gaataagctg cagaccact ggcgaaacatg ggacactatg 1020
 gctagctnac ctatgcttca gctttgacat ctgctggcct tcttcttggg ccagctcctt 1080
 tcatctncan ctttggggcc cgacagacgc tgaagagaac tttcaggccg agaacaccat 1140
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 ggatgccgga cccgct 1216

<210> 573
 <211> 818
 <212> DNA
 <213> Homo sapiens

<400> 573
 aaaacttgag tatgttgagg gaaggaatat atatatatct gggagagaat ggatacgttt 60
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 gcagttttga gagccctgtt tctgccttgt atcattttcc actgtgtatc kgattctagg 180
 agcgtgaaca gggagacaaa ggtgaagttt gtgcacacct ctgtccatgg ggtgggtcat 240
 agctttgtgc agtcmgcttt caaggctttt gmccttgctc cycctgagggc tgttcttgaa 300
 cagaaagatc cggatcctga gtttccaaca gtgaaatacc cgaatcccga agaggggaaa 360
 ggtgtcttgg taacctaat tttttttaa ttatgaaatc tgcttttata tcaaaaacta 420
 ttactgtcaa gtaaaataca tttttatgtg ttttcattgt gctgaagaaa aactaatctc 480
 agcatggaaa tatgtatgtt tggctgggtg cagcgtctca tgtctgtaat cccagcactt 540
 tgggagacca aggcaggcag atcacttgag gtcagggtgt cgagaacagc ctggccaaca 600
 tggcaaaacc ctgtctctac taaaaataca aaaattagct ggggtgtggt gtacatgcct 660
 gtaatcccag ccacttgagg ggctgaggca ctagaattgt ttgaacctga gagatggagg 720
 ttgcagttag ctgagattgc accactgcac tccagcctgg gtgacagggt gacagagcga 780
 gactctgtct caaaaaaaaa aaaaaaaaaa aactcgag 818

<210> 574

<211> 712

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (565)..(565)

<223> n equals a,t,g, or c

<400> 574

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagctggac | aggaccggag | aggaccccg | gtaaccgagg | aacagacact | 60 |
| cccggcagcg | gccgccggcg | cggcactgct | acgggacgag | ccggagcgct | tggccatggc | 120 |
| ggcccgatcc | gcactggcgc | tgctgctgct | gctgccagtc | ctgctcctgc | cggtgcagag | 180 |
| ycgctcagag | cccagagacca | ccgcgccac | ccctacccca | atcccgggtg | gcaactcgtc | 240 |
| aktgagcagg | cccctgcccc | gcacgagct | ccacgcctgc | ggcccatacc | ccaaaccagg | 300 |
| cctgctcatc | ctgctggccc | cgctggccct | gtggcccat | ctcctgtagg | gacgcccagc | 360 |
| cagccaccte | taagtcgccc | ctgggactgg | cctgccccat | tgagcaacag | agacgcttga | 420 |
| cagccgcccc | cctccattcc | ttgacttcac | ccagaaatgg | gtccagaaaa | ctgaatccca | 480 |
| ccagcactgg | tttggagcaa | ccggacaccg | aggtttcacc | tccagggrrt | ccatggaaga | 540 |
| gcctcaatgg | agatgccaca | tcctnactga | gttaaagatg | ggctgaggaa | cttgggtacc | 600 |
| cacaagtytg | ccttgggrat | caaaagaaaa | tatttacctt | tagtttggtt | cattaaatgc | 660 |
| atgaagtcaa | aatatgaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaactc | ga | 712 |

<210> 575

<211> 2248.

<212> DNA

<213> Homo sapiens

<400> 575

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|------|
| acgcagaacg | ccgacggcct | ctccacctac | gtgtgcctgg | tgctgctggt | ggccaacatt | 60 |
| ttgcggatac | tcttctggtt | tggaaaggcg | tttgagtccc | cgctgctgtg | gcagagcgcc | 120 |
| atcatgatcc | tgaccatgct | gctgatgctg | aagctgtgca | ccgaggtccg | tgtggccaac | 180 |
| gagctcaacg | ccaggcgccg | ctcctttaca | gctgcagata | gcaaggatga | agaagtcaag | 240 |
| gttgccccca | ggcggtcctt | cctggacttc | gacccccacc | acttctggca | gtggagcagc | 300 |
| ttctcggact | acgtgcagtg | cgctctggcc | ttcacggggc | tgggcggtga | catcacctac | 360 |
| ctgtccattg | actccgcct | gtttgtggag | accctgggct | tcctggctgt | gctgaccgaa | 420 |
| gccatgctgg | gtgtgcccc | gctttaccgc | aaccaccgcc | accagtcac | ggagggcatg | 480 |
| agcatcaaga | tgggtgctcat | gtggaccagt | ggtgacgcct | tcaagacggc | ctacttcctg | 540 |
| ctgaaggggtg | cccctctgca | gttctccgtg | tgccgctgc | tgacaggtgct | ggtggacctg | 600 |
| gccatcctgg | ggcaggccta | cgcttccgcc | cgccaccccc | agaagccggc | gccccacgcc | 660 |
| gtgcaccccc | ctggcaccaa | ggcctctga | cagtggggag | gacgaggatg | tgggaccgcc | 720 |
| agccgcgggc | actggtgggc | cctgacctcc | ccgcggggag | ggtgggtgcc | gtggcccttg | 780 |
| caggtgtggc | agagatgggg | cacgggcatt | gggtctcca | tcagcctctg | tgggtgtct | 840 |
| caggtgtggc | agtgggggtg | gggctgggac | gctgtttgtg | ctcagcgggg | acagccaggg | 900 |
| ttgatctggc | cccaggggtt | ttggatgttt | ttaggatgac | ataaaaagca | agtgttttcc | 960 |
| ccatttctct | ttatgaaaca | ccgtctgagc | ccaaggtaca | cattgggcgg | cctgcaggaa | 1020 |
| cctgctccag | gtggacacac | gggccagcag | ccgcgaacct | tgaagctggg | gtgaccgcag | 1080 |
| gagaccctgt | aaggcctgtg | agcggagccc | tcgacccctg | gacaccctgg | ccagacaccc | 1140 |
| tgcttggaact | gggtggcct | ctgctaccca | gggtctggc | acgggggagg | gctggggctt | 1200 |
| tctctgcctg | gtacacacgg | aaaggcggct | gtgcggacgc | agggtcaccc | tgctccgggt | 1260 |
| ttcttgacag | tcggtgtttc | ctgggccttt | ggagtggctg | cgaggcctga | acgccttgtg | 1320 |
| gatccgctgt | gtccagcccc | gctgagcatc | gccagggcta | gctcatgctg | ctctgtcag | 1380 |
| cctctggttc | tcctcgagtc | cttggggacg | tggcagatgc | cagcgaccat | cagacaacgt | 1440 |
| ggagggccctc | atgggcaatg | gctgaggggg | ccgggctgag | gctgtgcaca | tgacgtctgc | 1500 |
| acggcactct | tgggctctgc | tggcggagat | ccccttcctt | ctgggtgcag | actgcacctc | 1560 |
| cggatgcagt | tttgatgtcc | atcttccagg | agagagacgg | tctcgggtcc | agggagtggg | 1620 |
| gggggctgcc | cctgccgtgc | aggctcctgg | cgatggcgcc | ttaccctgct | gccctgggct | 1680 |
| tttggcctga | agcaaattcc | tgagtggggg | gtactggggc | ctgccgcate | ctgtcctgtc | 1740 |
| cactgcccac | ccccgtgtgc | tggctccctc | acttctggct | gcagtggggg | ccgccagtct | 1800 |
| gacccttgte | accgcacgct | ctgccccac | ccgcttgcaa | gaggtcacac | catgtcagca | 1860 |
| gccttgcaact | gaccgcagcc | ggcccccagg | cctcagagtt | ctggatgctt | ccgtgcggtc | 1920 |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| ccaacaggca | tcgtcttccc | ttccgcaggt | ggaggggccc | cttcccgcag | gcattctgagc | 1980 |
| tctgtgccgg | ggccgtggcc | atgggaagat | gttccacgct | gcctcctcct | cgagttttcc | 2040 |
| tcggaaacac | tcttgaatgt | ctgagtgagg | gtcctgctta | gctctttggc | ctgtgagatg | 2100 |
| ctttgaaaat | ttttattttt | ttaagatgaa | gcaagatgtc | tgtagcggta | attgcctcac | 2160 |
| attaaactgt | cgccgactgc | aggcgcagtg | actgctgaat | gtaccctgtg | tggcgacttg | 2220 |
| gaatcaataa | accatttgtg | gatcctga | | | | 2248 |

<210> 576

<211> 534

<212> DNA

<213> Homo sapiens

<400> 576

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| agcccttcgt | ggccggcttt | gccgtcatca | ccgcggccca | ggacgtgtgg | atgctgctgg | 60 |
| ggggccgcct | cctcaccggc | ctggcctgcg | gtgttgccctc | cctagtggcc | ccggtgagtg | 120 |
| tcccgctctct | cgagtgtcct | gtctcgcggc | ctgagaccga | gggggagtg | gacaaaccgc | 180 |
| tcccaggcc | tggggcgcg | gctccccctg | gcgggacctt | ctgggtgcca | ggcttgaagt | 240 |
| ccctgcgtta | tctcgcggtc | cctcccgtcg | accctgggaa | ggatcctact | gttctctcca | 300 |
| ttttacactg | aggtcatgac | atgcagtctc | ggaaaggtga | agtcctttgc | ccaggcgagg | 360 |
| tccacagcta | gtcagagggg | aagcagttgc | aggaaccag | ggttgctcca | cttagccgtg | 420 |
| cccytctttt | gctctgcaaa | ctgcggatga | tccacaggag | cccactcctt | acattttggt | 480 |
| tttcatccct | ggcttcgggg | tcaatgactg | caattagcag | gaagtctctg | tcct | 534 |

<210> 577

<211> 1032

<212> DNA

<213> Homo sapiens

<400> 577

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|------|
| tgcaggaatt | cggcacgagg | cgggccggga | cgggcatggc | cctgctgctg | tgcctgggtg | 60 |
| gcctgacggc | ggcgtggcc | cacggctgtc | tgcactgcc | cagcaacttc | tccaagaagt | 120 |
| tctccttcta | ccgccaccat | gtgaacttca | agtccctggtg | ggtgggcgac | atccccgtgt | 180 |
| caggggcgct | gtcaccgac | tggagcgacg | acacgatgaa | ggagctgcac | ctggccatcc | 240 |
| ccgccaagat | caccggggag | aagctggacc | aagtggcgac | agcagtgtac | cagatgatgg | 300 |
| atcagctgta | ccagggaag | atgtacttcc | ccgggtatlt | ccccaacgag | ctgcgaaaca | 360 |
| tcttccggga | gcagggtgcac | ctcatccaga | acgccatcat | cgaaagccgc | atcgactgtc | 420 |
| agcaccgctg | tggtaagcaa | ggctccgtcc | aggctgagg | gcgtgccgg | ggcagctcgg | 480 |
| ggccctggag | gctgagggga | gccctggcgg | ctctgttacg | tgtttcaggc | atcttccagt | 540 |
| acgagaccat | ctcctgcaac | aactgcacag | actgcacagt | cgctgcttt | ggctataact | 600 |
| gcgagtccct | ggcgagtggt | aagtcaagt | tccagggcct | cctgaactac | ataaataact | 660 |
| ggcacaaaca | ggacacgagc | atgagcctgg | tatcgccagc | cttaaggtgt | ctggagcccc | 720 |
| cacacttggt | caacctgacc | ttggaagatg | ctctgagtg | tctcaagcag | cactgacagc | 780 |
| agctgggcct | gccccagggc | aacgtggggg | cggagactca | gctggacagc | ccctgcctgt | 840 |
| cactctggag | ctgggctgct | gctgcctcag | gacccccctt | ccgaccccg | acagagctga | 900 |
| gctggccagg | gccaggagg | cgggaggagg | ggaatggggg | tgggctgtgc | gcagcatcag | 960 |
| cgcctgggca | ggtccgcaga | gctgcgggat | gtgattaaag | tccctgatgt | ttaaaaaaaa | 1020 |
| aaaaaaaaaa | ac | | | | | 1032 |

<210> 578

<211> 1074

<212> DNA

<213> Homo sapiens

<400> 578

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| gctttctctgt | gtcccagctt | ttctgcgggt | cttggcacct | ttcttgccca | cagattttctg | 60 |
| ggttacagag | catgtgtgtc | tgaggcattg | caggcagaaa | agggtggccg | acgtgacctc | 120 |
| tagctggact | gctgggcagg | ggagctgtcc | tagataaaat | tggaaagaaa | cagtgaacca | 180 |
| gagacaggtg | gacaaagaat | tcggggactg | atgggaactg | agcttgggat | ccagactgaa | 240 |
| actgattcca | gactgacctc | tagcaccag | gaccagaca | cagggccatg | ggacccagc | 300 |
| atttgagact | tgtgcagctg | ttctgccttc | taggggcat | ctccactctg | cctcgggctg | 360 |
| gagctctttt | gtgctatgaa | gcaacagcct | caagattcag | agctgttgct | ttccataact | 420 |

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|------|
| ggaagtggct | tctgatgagg | aacatgggtgt | gtaagctgca | agaggggctgc | gaggagacgc | 480 |
| tagtggtcat | tgagacaggg | actgcaaggg | gagttgtggg | ctttaaaggc | tgagctcgt | 540 |
| cttcgtctta | ccctgcgcaa | atctcctacc | ttgtttcccc | acccggagtg | tccattgcct | 600 |
| cctacagtcg | cgtctgccgg | tcttatctct | gcaacaacct | caccaatttg | gagccttttg | 660 |
| tgaaactcaa | ggccagcact | cctaagtcta | tcacatctgc | gtcctgtagc | tgcccgcact | 720 |
| gtgtgggcga | rcacatgaag | gattgctctc | caaatcttgg | caccactaat | tcttgccctt | 780 |
| tggtctgttc | tacgtgtttac | agttccacct | taaaatttca | ggcagggttt | ctcaatacca | 840 |
| cttcctcct | catgggggtgt | gtcgtgtaac | ataaccagct | tttagcagat | tttcatcata | 900 |
| ttgggagcat | caaagtgact | gaggtcctca | acatcttaga | gaagtctcag | attgttggtg | 960 |
| cagcatcctc | caggcaagat | cctgcttggg | gtgtcgtctt | aggcctcctg | tttgcttca | 1020 |
| gggactgacc | atctagctgc | acccgacaag | cacccagact | ctttcacata | acaa | 1074 |

<210> 579

<211> 978

<212> DNA

<213> Homo sapiens

<400> 579

| | | | | | | |
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| gctcacaaga | taatattctt | tgcttttttc | ctctcggagt | gttctctgcg | tttgtgatct | 60 |
| ctcttagctc | tggtagcctg | ttcaggcctt | aagggtatctg | ttcgggtatta | tgtgggtcaag | 120 |
| tagctgggac | cacaggatca | caacaccacg | tctgggcta | tttttttttt | tttttttttt | 180 |
| tttttttttt | gtagagatgg | ggtttcgcta | tggtggccag | gctgggtctca | aactcctggc | 240 |
| ctcaagcaat | cttcagcct | tgccctccca | aagtgtctgg | attacaggtg | tgagccacca | 300 |
| cktctggctt | ggagggttta | ttaaaacmcc | gattcttagc | ctcaccacca | gagtttctgg | 360 |
| ttagtaggtc | ttggcagggc | tggaagaattk | gaatttccac | accttctctg | gtgatgtgtt | 420 |
| gttggttagt | cagggagtag | atgtgagagg | aaccgttttag | atagkaaaaa | ctgcaaacct | 480 |
| gaagaagaat | agaagaatcc | ttattctgkg | ctctcttaga | tttagtttcc | tcattctatga | 540 |
| tcaataacta | ttcatttctt | cctcatttcc | aataacgatt | tgctgctttt | aagagcaaga | 600 |
| gatcactttt | ccttcattgt | gttttgctag | tggaatca | gaaatgggtt | cgccagtatt | 660 |
| cactgatctt | gtaatcactc | tcggaatcca | gctgcactc | tagttagtag | ttttgggtca | 720 |
| acaagaataa | wrmwagctt | aaagaattgg | actcagactc | ttgaagtcag | gggttgatga | 780 |
| gaaggtggct | ctaattctatt | cattcaacaa | cttcctattg | agcacctgct | atgtgcagg | 840 |
| tgctgttcta | gccactaaga | tagagcaggt | aataacatag | ggccattgtc | cttatggaa | 900 |
| ttgtattgta | gtgggggtgaa | taaaaaagg | cagtctaggt | ggggcccgga | aaaaaaaaa | 960 |
| aaaaaaaaa | aaactcga | | | | | 978 |

<210> 580

<211> 300

<212> DNA

<213> Homo sapiens

<400> 580

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| gaccatatgt | tgagggaagt | caaaactggac | ttttgtggc | tactaaattt | gcctttaate | 60 |
| ttattgttct | caattttgga | atcaagtatg | aaaatctgca | caaagtcaat | gtttacaaga | 120 |
| actgggtgat | tctgggaggc | atctgtctaca | gtctcttttt | atatggatat | gtacatgtcc | 180 |
| tattctacaa | aatgatttaa | agataaaaa | atactgtgat | cccactgcta | ctttagctgt | 240 |
| caaatttggt | gtttcatcac | attaaaagca | ataaatcagt | agttggta | gtaaaaaaa | 300 |

<210> 581

<211> 1466

<212> DNA

<213> Homo sapiens

<400> 581

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ggcacgagtg | cctcaaagac | tattatttgg | gaggatctag | tgcaaatggt | agtaatgtgg | 60 |
| atattgtgta | gtgtcccagg | atattaatgt | ttttagcctc | ttggctttta | ttctgtattg | 120 |
| ttgccccaaa | agatgatgct | cacttatctt | tcattccagt | taaggatata | tggaagaca | 180 |
| acagaaagta | tagctgtttt | catttcaaaa | gtgatcagct | gcttgagcta | gcaagcaagg | 240 |
| cttgcaactg | cttcaggcg | cagtcacgca | gtttcacagc | aggcgcggtt | ccctcggagc | 300 |
| acccagagct | gccctgcggt | agtcagcagt | tgtgtctgtg | ctgcactgcc | aggctgggtg | 360 |
| gcargtggat | cggagccagc | agatgtggct | caggaagtgc | cttcttggcc | tctcctta | 420 |

```

ctctttcaga stctgtgggc ccttgattgc actgtgggtt gtttcagact ccagtattag 480
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gcttcacatcct ggtctgggtgc ctcattttct tcttagcag tgggcttaga accaatgcag 720
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taaaaaaaaa aaaaaaaaaa ctcgta 1466

```

<210> 582

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (126)..(126)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (202)..(202)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (380)..(380)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (476)..(476)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (511)..(511)

<223> n equals a,t,g, or c

<400> 582

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cagggnaaat gcacttcaac ttgtcagaga aagcccctcc ttctggtttt catattcggt 180
gtgaattttt ttacattcc tncagcagca ttctgcaact aacggcaact ctacgatgtg 240
tccgtgacct tcagagatcc ttgtccctgg gaatccagtg gattgtagtt agaatactag 300
ggggcatccc ggggcccac gccttcggct ggggtgacga caaggcctgt ctgctgtggc 360
agracagtg tggccagcan ggctcctgct tgggtgacca gawtcggcca tgagccgcta 420
cataytcac atggggctcc tgtacaagt ctgggcgtcc tcttctttgc catagnctgc 480
ttettawama agcccctgtc ggagtcttca natggcytgg raamtgtgt gcccagccag 540
tcctcagccc ctgacagtgc ccacagatag ccagctccag agcagcgtct gaccaccgcc 600
cgcgcccacc cggccacggc gggcactcag catttctga tgacagaaca gtgccgttgg 660

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| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|------|
| gtgatgcaat | cacacgggaa | cttctatttg | acctgcaacc | ttctacttaa | cctgtggttt | 720 |
| aaagtcggct | gtgacctcct | gtccccagag | ctgtacggcc | ctgcagtggg | tgggaggaac | 780 |
| ttgcataaat | atataattat | ggacacacag | tttgcatcag | aacgtgttta | tagaatgtgt | 840 |
| tttataccg | atcgtgtgtg | gtgtgctga | ggacaaactc | cgcaggggct | gtgaatccca | 900 |
| ctgggagggc | gggtggcctgc | agcccgagga | aggcttgtgt | gtcctcagtt | aaaactgtgc | 960 |
| atatcgaaat | atattttgtt | attttaagcct | gaaaaaaaa | aaaaaaaaa | aaaaaaaaa | 1019 |

<210> 583

<211> 973

<212> DNA

<213> Homo sapiens

<400> 583

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|-------------|------------|------------|------------|-------------|-------------|-----|
| ggggactcag | tcacacagaa | aatagaagaa | tgtgtgtaca | gttggaaggt | ctcagagaaa | 60 |
| aggagtctgt | tggacagaat | gaccagtctg | tgactactgc | catttttcat | gaccatatat | 120 |
| caaccacat | tacagatgta | acttagtgag | agaaaacatc | tccctgtttt | ccttcatata | 180 |
| ttatgaaata | tttacttttt | ctagtatttt | gtctatctta | cgtcaaagat | ttaaataatct | 240 |
| ttgacctcct | gtactaaata | ccacgccaca | tcagttttag | ttgcctttct | tttttcctta | 300 |
| ggctagtttt | ttggtatacc | atttctaaac | caatggtagg | aacattttaa | ggcatctttt | 360 |
| gtctggaata | wgttttagca | tgtmcagcat | gaaagtttta | tatgtttatt | aatttttgtt | 420 |
| tataattggt | aatgaatatt | aattttgtta | atgaatatat | attaaaccaa | ttaataaaca | 480 |
| gtcacaaagc | tgcaaaccgk | tttaataatt | attaaagttt | taatttttta | atggattttg | 540 |
| gtcatcctaag | ttccgaaatg | aaatacacca | aacttgttct | tactttgccca | aattgtccta | 600 |
| ctgtttctca | gaatcaacat | ttttagacat | tatgtagaaa | cactctttta | cctagtgtts | 660 |
| tcaggcttag | tagagaaagg | aaaagaaaga | aagttggagc | tggaaagagga | aagttggtaa | 720 |
| atgtggtcag | tagtgcatth | tgtgtgacca | ggcaagttct | gcagaacctc | ttctgaacac | 780 |
| cttcacctgt | gtaaaatccc | aggcattagt | taatctccaa | ccactatggc | aggatatgca | 840 |
| tctgagagca | aagaggcaaa | tggcaagcag | agatcacaaa | ggtgcaagag | ctagagtagt | 900 |
| gatagaacca | gtgccaggac | gatctaaatt | cccttgcat | gtcaatacrc | aaaaaaaaa | 960 |
| aaaaaaaaact | cga | | | | | 973 |

<210> 584

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 584

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|-------------|------------|------------|------------|------------|-------------|------|
| ggcacgagca | cttatgtgtt | tggcattctc | cgtcatcatt | ctggccgggg | cgggcagttc | 60 |
| taggagttgg | aactcagtc | tgggtgaaaa | ggaagtcgtg | gaggagggc | tagggccgtg | 120 |
| ggggaactgc | tctgctgagc | ctcttcctca | cctgctgctt | cctaggacta | acctgaaagg | 180 |
| ctaagggtacc | aggctgaagt | cagtgcctag | aaaaccaatc | gtcattcttt | ggggtttttt | 240 |
| ttcttgaaga | gccactttct | ctttaccttg | ttctagcctg | ttggaggtag | ggtttctgca | 300 |
| attccaaagg | ccgtacacag | cctctcacca | tcagaccact | ttttaaggct | cttcgttcat | 360 |
| acctagctcg | aagattcact | tcctcaggaa | gccattttag | ttacaaatct | gggaaaactt | 420 |
| aaaatgcttt | cattgtgcca | tgttttctgt | tgacgttcca | gtaccgtacc | tagtggtcag | 480 |
| gcatacttac | aagtttcttt | ttacagtaac | cccttggtga | catctaataa | atggtcatta | 540 |
| tttttttagta | ctagtgtgtt | ttcctgaaca | ctgtaagatc | tgtgactgac | gtttgatacc | 600 |
| ttaaagcagt | gccatataat | aactaccac | tatttgttct | ttatttctgt | cagataaaaa | 660 |
| tgttctatgt | agtgtctaca | gtcatttttt | ttttaactag | aatttagatt | tggaaagtagt | 720 |
| ttttctatta | gttgatttgc | atgaaataca | aaattaggaa | aaggcttatt | ccacctcaac | 780 |
| ctagtgtgaac | tattaatgat | tttttttttt | ttttgaggat | ttgggctctt | tctagataga | 840 |
| aaatcacctt | gaacttctag | ctttgcattg | tgaagtgaac | atcatgaaga | tgagaaaatg | 900 |
| ttgggagatc | atttttgcaa | agggcataat | agtcggcatt | cagatatgag | ttaactgcag | 960 |
| agggaaaatt | gcaagctgtc | atgttggcct | tgttcctctc | aaccttctgg | taaccttaaca | 1020 |
| agctcctaca | ggttgatgt | gaaattgcaa | gatgattata | tagccctgtt | gaatttaca | 1080 |
| ccagatcttg | ctttcaaacc | attattagcc | aagggtttga | ttccacacct | gtgttcatgg | 1140 |
| attttttgg | attagacatt | gctgtaactc | gttttctact | ttttcatctg | ttatcttggc | 1200 |
| tcacttaagg | gagaaggtat | cagcagccta | ggaccacttg | gtttctgttt | ttatgtttca | 1260 |
| tagttcatgg | ctgataaaaa | ttacctgtcc | ttaggccgag | tgacgtgcct | cacacctgta | 1320 |
| atcccagcac | tttgggaggc | cgaggtgagt | agatcacctg | agatcaggag | ttcgagacca | 1380 |
| gcctggacaa | caagagcaaa | actccatctc | caaaaaaaaa | aaaaaaaaa | | 1430 |

<210> 585
 <211> 1949
 <212> DNA
 <213> Homo sapiens

<400> 585
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 ttctccacag gatctgcctc ggtctgtcag acatttcctaa ggaaaattgt ataataacta 120
 tttcggggaat gcagttatct catcatggtc agtctttggg gaagtgggct gagaaattac 180
 atgtgttcta ttctctatct tcattcctat tgtgaccttc acaccgactc aaaaccttcc 240
 ttttagatac ttctggatat aaaaatata gttaattttg gggtttcaca ctcttgagtg 300
 aaaggcagtg tcatcaagta cgtgaatgcc cagctcctaa atgtctttct cgttctcctc 360
 ccaccagtc acgtcctcca ggcagtgacc ttcttttatt tcacattccg cttacttcc 420
 tgacccctca gcatttcaga cctgaaagga cactgggtact gttgtccttg tggggcctg 480
 tggctttgcc tctcattccc tgggtgaatgt caggaaatag agggctgaga ctaattttta 540
 taggttctca atttttcttg cttggggaca agctgttgac ttagctctga ataggagtaa 600
 taaggaggca gtgggccagg ctgcatgaca actggttttc agggccatat aaaaaagta 660
 taactttatt atctcaagcc atgcctggcc tattgcaaag ccagtggtgg gtgtcttggg 720
 gcttgatttt gagattggag cttctctgac ctccagtaac ctttctcag gggccacagt 780
 gtgtgtcaca tgaatggcaa ggtgaggtga ggcttggggg agctcctggg gctgtgtcac 840
 accaccttac ctgtgtgcat tactctgtgc ttgttctttt gcatacatct gctgatttga 900
 acctcacggc tctgacttaa ggagcaggta ggtagggcat gtggtccttc cctcccgttt 960
 caaagacaag gaaagtgagt cacagagtag tgcactggct taccaggac atacagtggc 1020
 agagccaaga ctggagccta gctgcttgta ctaaccatgc cagtgccacc attaaccaca 1080
 agtcactagt ggtagctact tctgactatg actgtagtca ctgtctcctg gagaggagcc 1140
 tggccaccag attgatagtc ccagctgaga ctctctcctg aactgataag ctgttttgca 1200
 tgcttggaat gcctttcccc agtttggtca cctgataaac tcatccttat cctcaagatt 1260
 cagccagaa gacaccctta aaggaagcct tggctgtcct tcccaccag tgttccctca 1320
 ctgacttctg ttgtgtctca cactgcattt tacctgcttg cctccttcca tgtgttccca 1380
 gctagccagt aaattcttta aagacaagca ttgtaccctt tgctcagtg tggccagcac 1440
 caacctggca catgctctat tcatgttttc catgagtgtt tcatgttaga ggtgtatttt 1500
 gtacacaggt tttatgctgg gggctcagag agaagtggac agcagattgt tggccctccc 1560
 aggaagaaa gtccaacga gctggtggat gatctcttta aaggtgccaa agagcatgga 1620
 gctgtagctg tggagcgagt gacaaagagc tggctgatga gagccagacc ctgaaggaag 1680
 ccaacctgct caatgctgtc atcgtgcagc ggtaacata accgcccagc cagctgcctg 1740
 gcctccctcc tgtgtttccc atggccagtg gccatgcccc atggggatcg cccctcctgc 1800
 ccccttgtgc ataccagca gtccagtgc acgtctcctc catagctctg ggttcttaga 1860
 tcttggttgg acgtttgttt tctccttagt tgcatttcct gggtttttgt gatgatcaat 1920
 ggactttaat gaaaaaaaa aaaaaaaaa 1949

<210> 586
 <211> 1499
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (52)..(52)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (84)..(84)
 <223> n equals a,t,g, or c

<400> 586

| | | | | | | |
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| agcttattgc | aaagacaaat | gtttgaagtg | tttgttgaga | tttcctgttg | tncttcctga | 60 |
| ggcagncaca | gcataagctc | tttnaccctc | tactttctcag | cacataagct | ttcttaccat | 120 |
| ctatcactgg | agtcaggggt | gaggggagga | ccgcatgaca | gttgggtaat | atacacttat | 180 |
| tttttggcaa | aaacgttttc | tctgggacca | gaatgatctt | gatactgaaa | aaatttctag | 240 |
| tgctagatcc | tctttctaag | tgtgaaagga | cttatctgga | atgctccaga | atgatcccaa | 300 |
| gtgttgagct | gagagggacc | tggcagcaga | atctgattat | tgaaaagtgg | caattgttga | 360 |
| tttattgaag | acagaataat | aactcagcag | aactgttatg | ttgagctgaa | cccgacctcc | 420 |
| ttcagccgaa | tcatacaaga | atgcctgctg | catggctgtt | gctgctactt | attaaggctt | 480 |
| gggtgttctgg | gcacagtgca | atgcatttct | acatgggttg | tcctcacagc | aaatgaacaa | 540 |
| cacaggctta | aggaaacaag | caactctcaa | agtcctgcag | tgagtagagc | ttagctgttg | 600 |
| gtagtcaaca | tgccacgcga | tccggragtt | gagcctgtct | ccagaggtta | gagatgttca | 660 |
| gtttcctctt | aagggttctta | cgtagatttt | tttcatgact | ttatctacat | cctccttaaa | 720 |
| tttacgtttt | tagtccttac | tggctcttga | tatcaccagt | tttgttggtt | ttagtaattt | 780 |
| ctaactgccc | taaatttgtc | tgttttaaga | ttcaagggat | gataacctcag | tctgttatct | 840 |
| ggaaatatgg | ttacaaatcc | attttttctc | ttcaaggctt | tgaaaacatt | gacattgtct | 900 |
| cctcctaaca | tttttatttg | tcttgacagc | tcctaattta | tttaatttat | cgtaggaag | 960 |
| acgacttttc | tgtcttttga | tgatttttagc | tgcccttctc | tagaccttgc | tgattccatt | 1020 |
| atctttacca | agaattgaaa | gtgaaagtgg | catttgtcat | agaatgccat | ggtcttattc | 1080 |
| caaagtatct | taggatggaa | caatacaagg | cataatatgg | ggtcagttag | gtttgttaca | 1140 |
| cgagtgaatg | accaacaaca | ctactgtctg | ttcaaaccca | gtctgaaggg | tgaatcagac | 1200 |
| cgaccattgg | ccgtgagggg | ctggactgct | cagtattatc | tcaaggatat | caaggggtat | 1260 |
| tgaaaactgt | gtgatcaaa | gggctccatg | actttatgca | gggattcagt | agggagccaa | 1320 |
| gaagggttag | aatagttcag | agaccagagt | ctaagaccaa | tcaagaagaa | tggatcaatt | 1380 |
| agagatatga | attctggtgc | ttatatTTTT | gtggagctgg | ttgtgagata | aaaggtcaag | 1440 |
| cctaccagac | tgaaaagtgt | atgtgaaagc | tcttttaaaaa | aaaaaaaaaa | aaactcgag | 1499 |

<210> 587

<211> 1558

<212> DNA

<213> Homo sapiens

<400> 587

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|-------------|-------------|------------|-------------|------------|-------------|------|
| gcacatgcgg | ccttgacagct | ctccttacgc | acatgcgggc | cttgtagctc | tccttaccca | 60 |
| catgcggggc | ttgccgctct | ccttaccac | atgtgggcct | tgcagctctc | ccttaccaca | 120 |
| tgcggccctg | cagctctcct | taccacatg | cggccttgca | gctctcctta | cccacatgag | 180 |
| ggccttgccg | ctctccttac | ccacatgggg | ccttgccgct | ctccttaccc | acatgggggt | 240 |
| cttgacagctg | tccttacgca | catgcggggc | ttgcagctct | ccttaccac | atggggcctt | 300 |
| gcagctctcc | ttaccacat | gcggccttgc | agctctcctt | acccacatgc | gggccttgca | 360 |
| tgtgtgtggc | tctggagcct | ctcgtctcac | aggtctctac | aggtgcaggc | cactcaccgt | 420 |
| ctgggtggta | ggaccataaa | ggacaggggt | atgttaaagg | ttttgcctca | aaccagaagg | 480 |
| cgaggaccct | ttctgtccag | ttgccggaat | gatgtcatga | ggaactgtgt | gcccaggcac | 540 |
| gctgtgctag | ttacaacatg | tgtttttgtt | tcattcccca | cacactgtaa | ggtgggcatc | 600 |
| actgggcccc | tcacacaggt | gaaacagaag | cccggaatc | actcgtcccc | ttgcccagtc | 660 |
| atacaactag | tagccaaggc | agaatttgaa | ctcatgttgc | cctcagtcct | aaaacctgtg | 720 |
| tacttaaccc | ttgttctctc | ctgctgggtg | ctgtgtgatg | tcccatgtct | gtctgtctct | 780 |
| ctctaaaggg | acagtgcac | accaggagga | taccagatg | ctggggggcc | ttgggacaga | 840 |
| gtctgggagg | attgagtga | ggagcaggtg | aggggtgagc | tggagagaga | acgccctggt | 900 |
| ggagagttta | tgtagaaagg | ggattaggtc | tccgggagga | accggatcca | tgtggtctgc | 960 |
| tgagatggct | gagctctggc | ttcagatgtg | ccacccaaca | gaagaggccc | tggagggacg | 1020 |
| ccccctttgc | tgggtggcag | ccgtgggatt | ccgggggtctg | ccttgagggt | cctggagagg | 1080 |
| atgtcgtggc | cctggcccta | gactcaagct | gcctgggtcc | agttcagccc | ggccactcct | 1140 |
| gctgtggggc | ctagccaggg | gccttcactc | caccgactgc | tgtgtgtttg | gtacatgggtg | 1200 |
| tcaccaggc | catgtgctta | gcaatgtgcc | tgacagccag | tgccggtgtc | agccattaca | 1260 |
| gggacacacg | tgccctggagg | ttgaggccac | gttctgtcac | ctaggcccg | tcgtggctct | 1320 |
| gggctggggc | aaacccccct | ttgaaaggat | tcctttttgc | ccctggcata | ggctctcatt | 1380 |
| gtcctagtga | acagctacat | ctttttaaca | agccagaaaa | ggccagctgg | cagtggctct | 1440 |
| gcctgaaatc | ccaagactgg | ctggccgaag | caggaggatc | acttgaggcc | agcctggcca | 1500 |
| aagtaagcaa | gactctgtct | ctacaaaaaa | ataacaaaaa | aaaaaaaaaa | aactcgag | 1558 |

<210> 588

<211> 549
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (474)..(474)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (484)..(484)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (528)..(528)
 <223> n equals a,t,g, or c

<400> 588
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 gggacagggc ctggcctcca gccacgggct ttccctgatg tccagcctca gctgcctctt 120
 cctgcctcat cccacccgca agaggwgctg gggaccarag acagagacac aaactccatt 180
 tgaatgtgaa ccttggcacc atggagatgc tcagggtgag cccagtctgc tctctcatta 240
 gtatgaattt ccttgtgttt ctgtctctct cctcttcctt ggtatcagct gctggkccca 300
 ggtttccttc cagagaggag cggggggtgg gtgggggtgg gctgattaaa tctgaggaca 360
 tgacattgrg cgagagaagc aaggggagct ggtgacctcc ctggatggat aaccatcagg 420
 aggcgggtarc agagtycama taccatcacc ttctcctgca gatgttggtt cagncacttt 480
 cctnctacca cagatgggct atgtgtttca aagcagaaga gcagagangg cagagaaccc 540
 cagctggtt 549

<210> 589
 <211> 1294
 <212> DNA
 <213> Homo sapiens

<400> 589
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 ggaatttaaca tggctctctga gaccccttc tgatggtgaa tgtgtgggtt ggtgattttg 120
 tggccctgca tcatgacctt atttagttct ctltcaacag gggatgtttt actgccttgt 180
 aaaatcctcg tgggactgcy tgtctttata ggagccaggg tgtaaatgaa cagaattcag 240
 attggttcta atatatttta cctctaaaag aaagggcatg gggaggccat gaccttaaa 300
 caggtttttt ctgttgtctg tgaagcctgt gatgattgag agtggtctgg actggcggga 360
 cgatgtttgg gtggaagagg gaggccatct cgatgcgccc cgtcccgggg aggcacccag 420
 cctgtaagga ggtgatgtct atctacactg agcgaagga ccctgaaccg ggggaggctg 480
 aggcggggcc tcttgattcc caccctgtcc cccagtggct aggctagtgt ggcccgggaa 540
 atgacttcca tctctccctc caggcatatt taataagagg ccagtatttt cagattctgc 600
 cgcttctgga cgaatgtctc agagagctgg gaggcgccct ggaggatgga acccttcctt 660
 gagcgttgtt gaggtgtgtc gggggtgccg tggcacaggc cccctcccct ggggggcatc 720
 actgttcctt tgctctgcat ccccgctgtt tcccctgccc ctgaacaggc gtggagatgt 780
 gcacgggaca ctcgagggcc ggatgtctca cagagtggag tgccgcgacg gtgtggccgc 840
 agcctggctg tgccttcacg acgcagctgc aatcagagga gctgtgggac gctgtcccat 900
 gtggacacag cccactcact ggggtgtgct cctgtgtctg gcgctgcact tttattgtcg 960
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 ggtgaaaccc cgtctctact aaaaatacaa aaaaattagc cgggtgtagt ggtgagtgc 1140
 tgtagtccca gctactcggg aggctgaggc aggagaatgg cgtgaacccg ggaggcggag 1200
 cttgcagtga gccgagatcg tgccactgct ctccagcctg ggcgactgag cgaaactccg 1260
 tctcaaaaaa aaaaaaaaaa aaaaaaaact cgag 1294

<210> 590

<211> 904
 <212> DNA
 <213> Homo sapiens

<400> 590
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 gactctctca tgggcaggac catcatggaa agttctgact acatcaagaa aggcgccaat 180
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 atgcccctac cctgagcttc ttcccagct ctttgacttc ctggacattg gtgaatatcc 360
 tgaataagca aaagggataa aattcataga aatatgggtg caaaaatata caacttcagc 420
 ccagttcttt ggggtccatg ttgtaaggag tccagttggc aagacaagct gcccaaggaa 480
 gtgcctcaga agtctgggtc aaagaggagg gccagatctg ttctgtgaga ccctatgtga 540
 ttgttatatt tttaaataat atataattaa gcaggacaaa ttaaatactc catggctttg 600
 gggaaaattg tgctttaaag tcctggaatg gggctgggca cgggtggctca tgcctattaa 660
 tcccagcact ttgggaagcc aaagtgggtg gatcacctga ggtcaggagt tcaagaccag 720
 cctggccaac atggcacaac cctgtccatg gtgggtgtgc aggtctgaggc aagaaaatcg 780
 ctgaacccg agaggcagag gttgcagtga cctgagattg cgccactgca ctccaacctg 840
 ggtgacagaa tgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
 aaaa 904

<210> 591
 <211> 1374
 <212> DNA
 <213> Homo sapiens

<400> 591
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 ttcagcctgg ccagccctct ggaccccag gttggacctt actgtgacac acctaccatg 180
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 <212> DNA
 <213> Homo sapiens

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| | | | | | | |
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| gttggagtgg | ctgtgtgggg | cgggtgagcg | cggcccagcc | tgatggaacc | cactgtacca | 300 |
| ggcccaggcc | tcagcctctg | agaaggactt | ccctgtgtca | ctcactcata | catgtcctca | 360 |
| ggacgtgaag | acatttcagc | agaccaaagt | ttccttcgaa | tttcttcga | atcgtccaga | 420 |
| tacttggaga | catctcctcc | tcacctgtgg | ggtgctgggg | cagtcctagg | cgtgggggca | 480 |
| gatgggtgga | cagctgctgc | tgccctgctg | gggggtggga | gcccttggag | cacacagtgg | 540 |
| tgaagacatt | cctgaatatg | tctcaggctg | tagaaatctt | atcttgtgga | aagattttag | 600 |
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<210> 593

<211> 3059

<212> DNA

<213> Homo sapiens

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| gggccagaca | agcctgtcca | ggccttgggtg | ggggaggacg | cagcattctc | ctgtttcctg | 180 |
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| gtggctccacc | tctacaggga | cgggaaggac | cagccattta | tgcatatgcc | acagtatcaa | 300 |
| ggcaggacaa | aactgggtgaa | ggattctatt | gcggaggggc | gcattctctc | gaggctggaa | 360 |
| aacattactg | tggtggatgc | tgccctctat | gggtgcagga | ttagttccca | gtcttactac | 420 |
| cagaaggcca | tctgggagct | acaggtgtca | gcactgggct | cagttcctct | catttccatc | 480 |
| gcgggatatg | ttgatagaga | catccagcta | ctctgtcagt | cctcgggctg | gttcccccg | 540 |
| cccacagcga | agtggaaagg | tccacaagga | caggatttgt | ccacagactc | caggacaaac | 600 |
| agagacatgc | atggcctgtt | tgatgtggag | atctctctga | ccgtccaaga | gaacgccggg | 660 |
| agcatatcgc | gttccatgcg | gcatgctcat | ctgagccgag | aggtggaatc | cagggtagac | 720 |
| ataggagact | ggagaagaaa | gcacggacag | gcaggtaaaa | gaaaatatc | ctcttcacac | 780 |
| atztatgact | cctttccaag | tctctcgttt | atggattttt | atattctgag | gcccgtgggt | 840 |
| ccctgcagag | ccaagcttgt | gatgggaact | ctgaaattgc | agattctggg | ggaggtgcat | 900 |
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| tgctgtctct | ctctgcttgc | tttcagaatt | gagagacgcc | cggaaacacg | caggtagcaa | 1080 |
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| aggggtcaca | ggcaagacgc | cagggaactg | agggcattag | tagctggctt | ctaggggtct | 1320 |
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| aacattactg | ggaggtggac | gtgggacaaa | atgtagggtg | gtatgtggga | gtgtgtcggg | 1860 |
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<210> 594
<211> 1963
<212> DNA
<213> Homo sapiens

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<222> (5)..(5)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1116)..(1116)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1253)..(1253)
<223> n equals a,t,g, or c

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<210> 595
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 <212> DNA
 <213> Homo sapiens

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 agg 963

<210> 596
 <211> 675
 <212> DNA
 <213> Homo sapiens

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<210> 597
 <211> 1134
 <212> DNA
 <213> Homo sapiens

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<220>
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<222> (1134)..(1134)

<223> n equals a,t,g, or c

<400> 597

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<210> 598

<211> 1583

<212> DNA

<213> Homo sapiens

<400> 598

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<210> 599

<211> 1991

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<222> (300)..(300)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (353)..(353)

<223> n equals a,t,g, or c

<400> 599

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tggtgggatg ctgtccacag tgaacatga gggtattcat gccctgggtt tctctgctgg      840
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cctyccacct ttttaattata gtctgggatt atatcaatgg agtgataaag tagttcgaaa      960
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ctggattcac gatggaaacc tgctctgccc atcatgttg gacttctgtg agctctgtcc     1920
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```

<210> 600

<211> 975

<212> DNA

<213> Homo sapiens

<400> 600

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accgccacc cgtgggagag tggatcaaga agaaaaaac tggcccgaga gtcgaagggc      180
cgccccaggc caacagaaat caccggcctt tacctctgtc cccaccctta ctttccccca      240
cataccgccc cctgcttggg ttcccacccc agcgcttgcc gctgctccc ctcctgtccc      300
cacagcctcc tctcccatt ctccatcacc agggaaatgcc ccggttcca cagggtcccc      360
cagatgcctg ttttycctca gaccatactt tccagtcgga tcaattctat tgccattcag      420

```

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| atgtcccctc | atcagcccat | gcagggtttct | tcgtcgaaga | caattttatg | gttggtcctc | 480 |
| agctgcctat | gcccttcttc | cccacacccc | gttatcagcg | gcctgcccga | gtggtagata | 540 |
| gggggttttg | caggtatcgt | ccccgtggcc | cctatacgcc | ctggggacag | cgccctcgac | 600 |
| cttcaaagag | aaggggccca | gccaatcctg | agccaaggcc | tcaatagacg | gacctagggc | 660 |
| ttatttcctc | tttatgaaca | tggattggac | agatctgaca | cttcctttcc | attgcttggc | 720 |
| ctgaacagac | tgacctgtgt | aacttaagcc | tggagtccat | gcctcgtctt | ccttttgttc | 780 |
| attgctgtta | ccaagaaagc | caaggaagag | cagcctgact | cattcttctt | ggctgcagcc | 840 |
| tcttcccac | ttcctgggag | tgacccagcg | ttattcctgc | ctcctcactc | ctattctctt | 900 |
| tgctttgtg | taaaaataaa | atggaaataa | acaagttgca | cagaaaaaaa | aaaaaaaaaa | 960 |
| aaaaccaag | ggggg | | | | | 975 |

<210> 601

<211> 1209

<212> DNA

<213> Homo sapiens

<400> 601

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| ggccacgaga | gtggatgcca | ttcaccaacc | cggcccgcga | ggacggagca | atgttcttcc | 60 |
| actggcgagc | tgacgaggag | gagggcaagg | actacccctc | tgccagggtc | aataagactg | 120 |
| tgacggtgcc | tgtgtactcg | gagcaggagt | accagcttta | tctccacgat | gatgcttgga | 180 |
| ctaaggcaga | aactgaccac | ctctttgacc | tcagccgccc | ctttgacctg | cgttttgggt | 240 |
| ttatccatga | ccggtatgac | caccagcagt | tcaagaagcg | ttctgtggaa | gacctgaagg | 300 |
| agcggtagta | ccacatctgt | gctaagcttg | ccaacgtgcg | ggctgtgcca | ggcacagacc | 360 |
| ttaagatacc | agtatttgat | gctgggcacg | aacgacggcg | gaagggaacg | cttgagcgctc | 420 |
| tctacaaccg | gacccacag | caggtggcag | aggaggagta | cctgctacag | gagctgcgca | 480 |
| agattgaggg | ccggaagaag | gagcgggaga | aacgcagcca | ggacctgcag | aagctgatca | 540 |
| cagcggcgaga | caccactgca | gagcagcggc | gcacggaaacg | caaggccccc | aaaaagaagc | 600 |
| tacccacagaa | aaaggaggct | gagaagccgg | ctgttctctga | gactgcaggc | atcaagtctc | 660 |
| cagacttcaa | gtctgcaggt | gtcacgctgc | ggagccaacg | gatgaagctg | ccaagctctg | 720 |
| tgggacagaa | gaagatcaag | gccctggaac | agatgtctgt | ggagcttggt | gtggagctga | 780 |
| gcccgcacacc | tacggaggag | ctgggtgcaca | tggtcaatga | gctgcgaagc | gacctggtgc | 840 |
| tgctctacga | gctcaagcag | gcctgtgcca | actgcgagta | tgagctgcag | atgctgcggc | 900 |
| accgtcatga | ggcactggcc | cgggctgggt | tgctaggggg | ccctgccaca | ccagcatcag | 960 |
| gcccaggccc | ggcctctgct | gagccggcag | tgactgaacc | cggacttggt | cctgacccca | 1020 |
| aggacaccat | cattgatgtg | gtgggcgcac | ccctcacgcc | caattcgaga | aagcgacggg | 1080 |
| agtcggcctc | cagctcatct | tccgtgaaga | aagccaagaa | gccgtgagag | gccccacggg | 1140 |
| gtgtgggcga | cgctgttatg | taaataagagc | tgctgagttg | gaaaaaaaaa | aaaaaaaaaa | 1200 |
| aaaaaaaaa | | | | | | 1209 |

<210> 602

<211> 2135

<212> DNA

<213> Homo sapiens

<400> 602

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| cttaatgaac | tggttacagg | ggctgctggg | ctggagggtg | aggatcttca | cgaaaaacat | 60 |
| attaaaacaa | accagaaga | actgagagag | attgtgacat | ctatacttga | agaatacaca | 120 |
| agtcaagaaa | attggtatta | ggttacctgt | cttgaaactg | aggaaatggg | agaggagctg | 180 |
| atgatggagc | accaggcct | ccaagccatc | acgtctggtg | aacacacctg | ccaagttaca | 240 |
| tcttttctag | ccttctcaaa | gccaagtccc | actatttgct | ccatgaacag | taacatctgg | 300 |
| caaatatgca | ttcagttgga | aggaattggc | cagttagcat | atgcactagg | aaaagacttc | 360 |
| tgtttgctct | tgatgtcagc | cctttatcca | gtactggaga | aggctggaga | ccaaacccta | 420 |
| ctcattagtc | aggtggctac | cagcaccatg | atggacgttt | gccgtgcttg | tggtctacgac | 480 |
| tccctgcagc | acctgatcaa | tcaaaattca | gactatttag | tgaatgggat | ctctttaaat | 540 |
| ctgcgtcatc | tggtcttgca | tctcataacc | ccaaaggccc | tggaggtcat | gctgcggaac | 600 |
| tcagatgcta | acctgcttcc | tttggtggca | gatgtggttc | aagatgtctt | ggccaccctg | 660 |
| gaccaatttt | acgataagag | agctgcttcc | tttgtcagcg | ttctgcatgc | tctgatggca | 720 |
| gcattagccc | agtgtgtccc | agacacaggt | aatcttgggc | acctccaaga | gcaaagttta | 780 |
| ggagaagagg | gaagtcattt | gaaccaaaga | ccagcagctc | ttgagaagag | caccaccaca | 840 |
| gctgaagaca | tcgaacagtt | tttgctgaac | tacctcaaag | agaaggatgt | ggcagatgga | 900 |
| aatgtctcgg | attttgataa | tgaagaagag | gaacagtcag | tccctcccaa | agtggatgag | 960 |

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|------|
| aatgacaccc | gtccagatgt | ggagccacca | ctgccattgc | agatccaaat | agccatggac | 1020 |
| gtgatggaac | gctgcatcca | cttggtgtca | gataaaaatc | tgcaaatccg | cctgaagggtc | 1080 |
| ttggatgtgc | tggatctgtg | tgtgggtgtt | cttcagtccc | acaaaaacca | gctgcttccc | 1140 |
| ttggctcatc | aggcctggcc | ctcgctcggt | caccgactca | cacgggacgc | ccccctggca | 1200 |
| gtgcttagag | ccttcaaggt | tttacgtacc | ctgggaagca | agtgtggtga | ctttcttcgc | 1260 |
| agccggttct | gcaaagatgt | cctgccaaag | ctggctggct | ccctagtcac | ccaggccccc | 1320 |
| atcagtgcc | gggctggacc | agtttactcg | cacacgctgg | ccttcaagtt | gcagctggct | 1380 |
| gtcttacagg | gcctgggccc | cctctgtgag | agactggacc | taggtgaggg | tgacctgaat | 1440 |
| aaagtggctg | atgcctgctt | gatttacctc | agtgtcaaac | agcccgtgaa | attacaagag | 1500 |
| gctgccagga | gcgtcttcct | ccacttgatg | aagggtggacc | cagactccac | ctggttcctc | 1560 |
| ctgaacgagc | tttactgccc | cgtgcagttc | acacctcccc | accccagcct | ccacctgtg | 1620 |
| cagctgcacg | gggcccagcg | gcagcagaac | ccctacacga | ccaacgtgct | ccagctgctc | 1680 |
| aaggagctgc | agtgacctg | ctccccacc | acagaggcca | ccgatccctc | ccctactgcc | 1740 |
| agccagaagc | tgggctgacc | ccaccccggc | ctaggcggt | ggcagcggca | gcagagaagg | 1800 |
| tgaattagtt | agccaatcga | tttataaatt | gatcgatcac | acaactgctt | agaaatggat | 1860 |
| tgaaggaaag | tagctgacta | ttatttatat | ttcatacctt | gtgttttcaa | gtgacattgt | 1920 |
| ctggtggctc | taagggttta | accccttagc | ctaccatctc | tatagcccca | gctccctcac | 1980 |
| aggccacaca | cacacacaca | caagagggtca | gttccccctc | atctgcatac | acctccctgt | 2040 |
| cttcaaataa | tgagatggaa | ctaatttggt | ttacctaac | tgatctttgg | gaaacaaacg | 2100 |
| gaaataaaga | cacttcttgg | atgaaaagta | aaaaa | | | 2135 |

<210> 603

<211> 1193

<212> DNA

<213> Homo sapiens

<400> 603

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|------|
| cagccccgcc | ttctctacac | aggaaagctc | agtggccccc | aagccaggat | gtcccaagct | 60 |
| tgggtccccc | gcctcgcgcc | caccttgctg | ttcagcctgc | tggctggccc | ccaaaagatt | 120 |
| gcagccaaat | gtggtctcat | ccttgccctg | cccaaaggat | tcaaattgctg | tgggtgacagc | 180 |
| tgctgccagg | agaacgagct | cttccctggc | cccgtgagga | tcttcgtcat | catcttcctg | 240 |
| gtcatcctgt | ccgtcttttg | catctgtggc | ctggctaagt | gcttctgtcg | caactgcaga | 300 |
| gagccggagc | cagacagccc | agtggattgc | cgggggcccc | tggaaactgcc | ctccatcatc | 360 |
| ccccagaga | gggtcagagt | atccctttct | gcgccccac | ccccctacag | tgagggtgatt | 420 |
| ctgaagccca | gcctgggccc | aactcccaca | gagccacccc | ctccctacag | cttcaggcct | 480 |
| gaagaatata | ccggggatca | gaggggcatt | gacaaccccg | ccttctgagt | cacctctgctc | 540 |
| ctggaatctt | gccatcagca | acctcctccc | cagtgcctcc | tggatcaagc | tagagactgc | 600 |
| tggcacccca | ggaatgtccc | tgcccacct | gccgtgtctc | tgttcattct | tggatttaac | 660 |
| ttattacttt | ttctgcttct | gtttccaccc | cagctgcctc | tcttgctcctg | aggggttaggc | 720 |
| tggagtga | gtttccgccc | acccccagc | ccaagaaaga | ggctgccgga | aagaaaatgc | 780 |
| tgaccattgg | aggtgcccaa | cagtagaatg | ggctactgtg | aggggtagta | agagcccat | 840 |
| ttctggaggt | atgcaaatct | tgactggaca | gccagctctg | agattttatc | agggcacttc | 900 |
| tatacctgtg | ggacattgga | ctggatgagc | cctgagccag | cttccactcc | tacctgaata | 960 |
| gagaactcac | tgcacccacc | cacaacacat | gataaacaca | tgtcctcact | gaatgttact | 1020 |
| gattgcggct | gagggcctgc | ctctggctgt | gtggggaggt | gggtggagag | gtgagcccag | 1080 |
| gcactgctga | ggggtgcggt | gatggggtcg | ctgcgccgca | atcccaccac | tgatgagcca | 1140 |
| cctgggaggt | ctgggaggcc | agtccatcca | tgggccgccc | tcggagagag | gct | 1193 |

<210> 604

<211> 518

<212> DNA

<213> Homo sapiens

<400> 604

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| acgcgtccga | gatacattcc | atgaatacct | agttttattga | gagtttttag | catgaaggac | 60 |
| tgtcgaattt | tgtcaaaagg | tttttctgca | tctattgaga | taatcatgtg | gtttttgtct | 120 |
| ttggttctgt | ttatgtgatg | gactatgttt | attgatttgc | atatgttgaa | ccagccttgc | 180 |
| atctcagggg | tgaagccaac | tcgatcgttg | tggataagct | ttttgatgtg | ctgctggatt | 240 |
| tggtttgcca | atattttatt | gaggattttt | gcatacgtgt | tcttcaggga | tattggtcta | 300 |
| aaattctctt | ttttttgttg | tgtctctgcc | aggctttggt | atcaggatga | tgctggcctc | 360 |
| ataaatgagt | tagggaggat | tccctctttc | tattgatcag | aatagtttca | gaaggaatgg | 420 |

taccagctct tctttgtacc tctggtagaa tttgggtgtg aatctatctt gtcctggaat 480
 atttttgggg ttggaactca aaaaaaaaaa aaaaaaaa 518

<210> 605

<211> 853

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (75)..(75)

<223> n equals a,t,g, or c

<400> 605

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| naaggcaaat | ttcttcctca | gtcgtgtggc | aggccctgag | caggcagctg | ggtgtccccg | 60 |
| ctcagatcca | ggcncgaat | gggctgggag | ggttgacagaa | gccatcacct | gagctaccca | 120 |
| gggtgggagc | cctggccccg | acctctgtcc | tgacacgccc | caagcggcag | caacaaagcc | 180 |
| ccaattggcc | tgggcctggg | caggaggagc | tgggcccggg | gccagatact | gggatcagcc | 240 |
| actgcagctc | cctgagcact | ctctacagag | acgcggaccc | cagacatgag | gaggctcctc | 300 |
| ctggtcacca | gcctgggtgt | tgtgctgctg | tgggaggcag | gtgcagtccc | agcacccaag | 360 |
| gtccctatca | agatgcaagt | caaacactgg | ccctcagagc | aggaccacga | gaaggcctgg | 420 |
| ggcgcccgtg | tggtggagcc | tccggagaag | gacgaccagc | tggtgggtgt | gttccctgtc | 480 |
| cagaagccga | aactcttgac | caccgaggag | aagccacgag | gtcagggcag | gggccccatc | 540 |
| cttccaggca | ccaaggcctg | gatggagacc | gaggacaccc | tgggcccgtg | cctgagtccc | 600 |
| gagcccagcc | atgacagcct | gtaccaccct | ccgctgagg | aggaccaggg | cgaggagagg | 660 |
| ccccggtgtg | gggtgatgcc | aatcaccag | gtgctcctgg | gaccggagga | agaccaagac | 720 |
| cacatctacc | acccccagta | gggtccagg | ggccatcact | gcccccgccc | tgtcccaagg | 780 |
| cccaggctgt | tgggactggg | accctcccta | ccctgcccc | gctagacaaa | taaaccacag | 840 |
| caggccgggt | tat | | | | | 853 |

<210> 606

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 606

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| aggctttcca | cccagaccgt | caacttcggg | acagtggggg | agacggtcac | ccttcacatc | 60 |
| tgcccagaca | gggatgggga | tgaggcggca | cagcctgatg | ctgctgccat | ggtggccttg | 120 |
| ggcagcgggg | agaaaggagt | gtcacaggga | gcagctcgtg | gctgcagtgg | aagtactga | 180 |
| gcaagagact | aaagtcccca | agaaaaccgt | catcatagaa | gagaccatca | ccactgtggt | 240 |
| gaagagccca | cgtggccaac | gacggtycce | cagcaagtcc | ccctcccgtc | caccttcccg | 300 |
| ctgctctgcc | agcccgtga | ggccaggcct | actggccccc | gacctgctgt | acctgccagg | 360 |
| tgctggccag | ccccgcaggc | cggargcaga | accaggccag | aagcccrctg | tgcccacact | 420 |
| gtatgtgacg | gaggccgagg | cccactctcc | agctctgccc | ggactctcgg | ggccccagcc | 480 |
| caagtgggtg | gaggtggagg | agaccattga | agtccgggtg | aagaagatgg | gcccgcaggg | 540 |
| tgtgtctccc | accacagagg | tgcccaggag | ctcatcgggg | catctcttca | cactgcccgg | 600 |
| tgcgaccccc | ggaggggacc | ccaattccaa | caactccaac | aacaagctgc | tggcccagga | 660 |
| ggcctgggcc | cagggcacag | ccatggctcg | cgtcagagag | ccccttgtct | tccgctgga | 720 |
| tgccagaggc | agtgtggact | gggctgcttc | tggcatgggc | agcctggagg | aggaggcac | 780 |
| catggaggag | gcgggagagg | aagaggggga | agacggagac | gcctttgtga | cggaggagtc | 840 |
| ccaggacaca | cacagccttg | gggatcgtga | ccccaaagtc | ctcacgcaca | acggccgcac | 900 |
| gctgacactg | gctgacctgg | aagattacgt | gcctggggaa | ggggagacct | tccactgtgg | 960 |
| tggccctggg | cctggcgccc | ctgatgaccc | tccctgcgag | gtctcggtga | tccagagaga | 1020 |
| gatcggggag | cccacgggtg | gcagcctgtg | ctgctcagcg | tggggcatgc | actgggtccc | 1080 |
| cgaggccctc | tcggcctctt | taggcctgag | ccccgtgggg | cgtcaccacc | gggacccacg | 1140 |
| gtccgtagcc | ttgagggcac | ctccttcctc | ttcggggagg | ccccggctcg | gcctgtgggc | 1200 |

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|------|
| agtgtccct | ggacgcagtc | tttctgcacc | cgcattccggc | gttctgcgga | cagtggccag | 1260 |
| agcagcttca | ccacagagct | ttccaccag | accgtcaact | tcgggacagt | gggggagacg | 1320 |
| gtcacccttc | acatctgtcs | ctggccwcgg | gccttcttac | ctcactcaac | ttcagccagg | 1380 |
| aggactgggt | ggtgcttgca | atgttggaat | gaccggctca | aagacctcag | ctctgggctg | 1440 |
| tttctgtca | gcctggcagg | agcctcagga | ctgtggacga | aggatgtggc | cttgggcatt | 1500 |
| tgtcctgttc | ccacatgggc | ctgggccctc | cctcctggcc | ccagccacag | ctgccaggcc | 1560 |
| tgacatggcc | ttgcctctcc | tgagtccttg | gtgactgaga | cccttgggtg | gcgcttccca | 1620 |
| gctctgcagg | ccctcctggc | cttttctgca | gggtggacac | agggctctgtg | tgtgggcagc | 1680 |
| agccctgtc | tctcagcaag | aataaagcag | cttctctgtc | aaaaaaaaa | aaaaaaaaa | 1740 |
| aactcgagcg | gcacgag | | | | | 1757 |

<210> 607

<211> 1010

<212> DNA

<213> Homo sapiens

<400> 607

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|------|
| gcgtccgtat | gttccagtgt | gggttattgc | agcagctttg | tactatccta | atggctactg | 60 |
| gggttcctgc | tgatatcctg | actgagacca | taaatactgt | atcagaagtt | attcgaggct | 120 |
| gccaagtaaa | ccaagactac | tttgcatctg | taaatgcacc | ttcaaaccga | ccaagaccgg | 180 |
| caattgtagt | acttctcatg | tccatgggta | atgaaaggca | gccatttgtt | ttgcgctgtg | 240 |
| ctgttctcta | ttgtttccag | tgtttcttgt | ataaaaacca | aaaaggacaa | ggagaaatcg | 300 |
| tgtaacact | ttaccttctt | accattgatg | caacaggtaa | ttcagtttca | gctggccagt | 360 |
| tattatgtgg | aggtttgttt | tctactgatt | cactttcaaa | ctgggtgtgct | gctgtggccc | 420 |
| ttgcccattgc | gttgcaagaa | aatgccaccc | agaaagaaca | gttgctcagg | gttcaacttg | 480 |
| ctacaagtat | tggaaccctt | ccagtttctt | tacttcaaca | gtgcaccaat | attctttcac | 540 |
| aggaagcaa | aatacaaaaca | agagttggat | tattaatgtt | gctttgtacc | tggctaagca | 600 |
| attgtcccat | tgcaagtaacg | cattttcttc | acaattcagc | caatgttcca | ttccttacag | 660 |
| gacaaattgc | agaaaatctt | ggagaagaag | agcagttggt | ccaaggctta | tgtgcccttt | 720 |
| tggtgggcat | ttcgatttat | ttcaatgata | actcacttga | gagctacatg | aaagagaagc | 780 |
| taaaacaact | gattgagaag | aggattggca | aagagaattt | catagagaaa | ctaggattta | 840 |
| ttagcaaaaca | tgagttgtat | tccagagcat | ctcagaaacc | ccagccaaac | tttcccagtc | 900 |
| cagaatacat | gatatttgat | catgagttta | cgaagctggg | aaaagaactt | gaagggtgta | 960 |
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<210> 608

<211> 2561

<212> DNA

<213> Homo sapiens

<400> 608

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| ggaggcgccc | tcaggagagg | ggcgggcgct | ctattccaga | gaccgagtgg | cagggcgccc | 120 |
| actgtggcgg | ggctctttcc | ccgtttcgcc | tcagctaccc | ctcagctccg | gtagtcgcca | 180 |
| gtccgggggc | gtcgcctgtt | ggggcgggag | ctgctcggcc | ccgccgcgct | ccccgtcgcc | 240 |
| gcttccgggt | ccaggcccct | cggggcgccct | gccgccgtca | tgaggctgcg | ggtgcggtt | 300 |
| ctgaagcgga | cctggccgct | ggaggtgccc | gagacggagc | cgacgctggg | gcatttgcgc | 360 |
| tcgcacctga | ggcagtcctt | gctgtgcacc | tgggggtaca | gttctaatac | ccgatttaca | 420 |
| attacattga | actacaagga | tcccctcact | ggagatgaag | agaccttggc | ttcatatggg | 480 |
| attgtttctg | gggacttgat | atgtttgatt | cttcaagatg | acattccagc | gcctaataata | 540 |
| ccttcatcca | cagattcaga | gcatttctca | ctccagaata | atgagcaacc | ctctttggcc | 600 |
| accagctcca | atcagactag | catgcaggat | gaacaaccaa | gtgattcatt | ccaaggacag | 660 |
| gcagcccagt | ctggtgtttg | gaatgacgac | agtatgttag | ggcctagtca | aaattttgaa | 720 |
| gctgagtcaa | ttcaagataa | tgcgcatatg | gcagagggca | caggtttcta | tccctcagaa | 780 |
| ccatgctct | gtagtgaatc | ggtggaagg | caagtgccac | attcattaga | gaccttgat | 840 |
| caatcagctg | actgttctga | tgccaatgat | gccttgatag | tgttgataca | tcttctcatg | 900 |
| ttggagtcag | gttacatacc | tcagggcacc | gaagccaaag | cactgtccat | gccggagaag | 960 |
| tggaagtga | gcgggggtga | taagctgcag | tacatgcac | ctctctgcga | gggcagctcc | 1020 |
| gctactctca | cctgtgtgcc | tttgggaaac | ctgattgttg | taaatgctac | actaaaaatc | 1080 |
| aacaatgaga | ttagaagtgt | gaaaagattg | cagctgctac | cagaatcttt | tattttgcaa | 1140 |
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| | | | | | | |
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| gaccactcc | tgtggagggt | tttatatctg | cgtgattttc | gagacaatac | tgctcagagt | 1440 |
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| aaagggcggt | ttgtgatgct | cctgccatcg | tcaactcaca | ccattccatt | ctatcccaac | 1560 |
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| cttccaggac | ctaaccctat | cttgccaggg | cgaggcgcc | ccaatgacag | atttcccttt | 1800 |
| agaccagca | ggggtcggcc | aactgatggc | cggtgtcat | tcagtgtgatt | gatttgta | 1860 |
| ttcatttctg | gagctccatt | tggttttgtt | tctaaactac | agatgtcaac | tccttgggggt | 1920 |
| gctgatctcg | agtgttattt | tctgattgtg | gtgttgagag | ttgcactccc | agaaaccttt | 1980 |
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| ttgttttctg | atgctgttct | taccagatta | aaaaaaagt | ttaaattacat | tggtggtctt | 2160 |
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| acatttcaga | attatcagag | aacatagcat | aggcagataa | tttttgtaag | ggttttctgt | 2280 |
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| tggtggtgaa | ctttctgggc | tgtgaagcaa | tgctgttgaa | aggccatttg | gtattagggg | 2520 |
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<210> 609

<211> 1015

<212> DNA

<213> Homo sapiens

<400> 609

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| cgcccgggag | gcgggtgggtg | cggtgcagc | tcggggcctg | ctgcctggag | atgaggacgc | 120 |
| tggtcgagct | cgggccctgg | gctggggact | ttgggcctga | cctgctgtc | acctgtctct | 180 |
| tcctgtctct | cctgggcgac | gggtcacct | tgagcggggc | ctcgccaac | cccactgtgt | 240 |
| ccctgcagga | gttctcatg | gccgagcagt | ctctgcctgg | cacgctgttg | aagctggcgg | 300 |
| cacaggggct | gggcatgcag | gccgcctgca | ccctgatgcg | cctctgctgg | gcctgggagc | 360 |
| tcagtgcact | gcacctgctg | cagagcctca | tgcccagag | ctgcagctcg | gccctgcgca | 420 |
| catccgtgcc | ccacggggcg | cttttgagg | ccgcctgcac | cttttgtttc | catctgacct | 480 |
| tcctgcacct | gcggcacagt | cctccggcct | acagcggggc | tgctgtggct | ctgttggtca | 540 |
| ccgtcacggc | ctacacggcc | gggcccctca | cgtctgcctt | cttcaacct | gccctggcgg | 600 |
| cctctgtgac | ctttgcctgc | tcggacacac | cttactggag | tacgtgcagg | tgtactggct | 660 |
| gggcccctctg | acagggatgg | tcctggctgt | gctgtgcac | cagggcgcgc | ttccccgcct | 720 |
| tttccagagg | aacctgttct | acggccagaa | gaacaagtac | cgagcaccac | gagggaagcc | 780 |
| ggcccccgcc | tcaggggaca | cccagacccc | tgcaaagggg | tccagtgtcc | gggagcctgg | 840 |
| gcgcagtgg | gttgaggggc | cacattccag | ctgagtggcc | ttgctctgtg | tgagccccgt | 900 |
| gcgagggccc | tgcttgtagc | tggaccctgg | aaccttctgt | agctaagagg | gaatcctggc | 960 |
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<210> 610

<211> 3308

<212> DNA

<213> Homo sapiens

<400> 610

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| ccagctcctc | tgggtgagtc | tgttccccct | cagcctcact | ttccttatcc | tgtcaaatga | 120 |
| aggatttgg | atgacttaag | ttattcaagc | aacaaacact | tactgaattg | tcttgccact | 180 |
| tcagggtga | cattatggag | ttctgtgatt | ctgcaagagg | ccagagggga | caaggtaag | 240 |
| tgggtgttca | cctggccctt | catcttctc | ctgtgcgtca | ccattcccaa | ctgcagcaag | 300 |
| ccccgtggg | agaagtctt | catggtcacc | ttcatcaccg | ccacgctgtg | gatcgctgtg | 360 |
| ttctcctaca | tcagtgtgtg | gctggtgact | attatcggat | acacacttgg | gatccccgat | 420 |

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<210> 611

<211> 866

<212> DNA

<213> Homo sapiens

<400> 611

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| gccaagacag | ttctgatgga | cttttgaaga | gggatttttc | aaaagcattt | aactcatcat | 420 |
| attaataaaa | taaactctat | gatttatggg | aaattctgtt | ggatcaactt | tggaaactgt | 480 |
| ttactataaa | ggtagcatgc | gtaggcata | atcttgataa | gacaagattc | tgatccgggg | 540 |
| ttctgagtgg | gtccttata | tctgcagagc | tgaaccaggt | ggaataggag | gagagtgttg | 600 |
| gtaacagtca | aacacaacat | ccaaaattat | gttgaatgta | gtggtgagag | ctattccctt | 660 |
| taaaactctc | tcttggttct | tctgactgtg | tcaagaatac | tgtatttgtt | tggtactggt | 720 |
| ctgggttttt | tttttttttt | tttgaatgc | actccagcct | gggcgacaag | agtgaactc | 780 |
| tgtctgaaaa | gaaagaaa | aagaaaaaga | aagaaaggaa | agaagggaag | aagaaaaaaa | 840 |
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<210> 612

<211> 2950

<212> DNA

<213> Homo sapiens

<400> 612

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| cagtctgccc | gcccgcgccg | cgccggggcc | gagtcgcgaa | gcgcgcctgc | gacccggcgt | 120 |
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| gactctatcc | aacctattat | atatgccgct | cctacagagga | ctgctgtggc | tccagggtgt | 300 |
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| actcacactt | tgtctcctct | gttgccttctg | tttctgacgc | atctgtgtct | tcacatggta | 900 |
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| aatgttcact | gtttacaacc | aagacaactg | cgtgggtcca | aacactctc | ttcctccagg | 2400 |
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| | | | | | | |
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| gaacgctgat | cctgcatatg | gaagtcctc | ttcgggtgaca | tttctctggcc | attctctgttt | 2700 |
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| aattcccgga | gcgtccgtgg | ttcagagtaa | acttgaagca | gatctgtgca | tgcttttctt | 2820 |
| ctgcaacaat | tggtctgttt | ctctttttttg | ttctctttttg | ataggatcct | gtttcctatg | 2880 |
| tgtgcaaat | aaaaataaat | ttgggcaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 2940 |
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<210> 613

<211> 1769

<212> DNA

<213> Homo sapiens

<400> 613

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| gccatcactg | tttctttgac | gtgtacatcc | catcctgaga | tgcagctggg | ctgggagccg | 120 |
| ccacctgggt | ggatctgatt | cctggatttc | cccatcctgg | ggasaggtga | cccatcctgt | 180 |
| tctcctcctt | aggtccatgt | gaaatctgar | gtccttgctg | tcaagttgtc | acaagaaata | 240 |
| aactacgcaa | agagcctcta | ctatgaacag | cagcttatgt | taagactcag | cgaacacagc | 300 |
| gagcagctgg | agctggactc | ctgaagcccc | gctgctgaga | tgggcgctcc | cgacacagcg | 360 |
| cagaccacc | aggaggaaa | aggcccagct | ctcagctgac | gatggaggca | gaaccggagt | 420 |
| cggttttggg | gaagtgtgca | aggaatgagg | gaaagtaaat | cctcatgagg | aaaagtacaa | 480 |
| atggaaatcg | tattaatttg | tgaggcaggg | agttatttta | gattatggga | aataattttt | 540 |
| aaaggtattg | gttaaataac | gtttaaatac | atgtactgag | atgaatctaa | tttttagatt | 600 |
| gccctgtatt | ttgttaacat | gtatatatgt | acaacagtgt | gtttgtaaat | atataggaac | 660 |
| gtttctgaac | agggtctgtg | ctatgtgtaa | aggtttgtta | actgtaaagt | aatataaagt | 720 |
| tatattggat | cttctattgc | actaattcta | gatgtcta | tcaggatact | gtctatagaa | 780 |
| aggcattctt | aaaagttaaa | gaatgttacg | tcttagtttt | ggagactaaa | gtattcccag | 840 |
| taaagtgggt | tgaggtgagg | gctgtgggtc | tgaaggggac | gcctttgaca | tcgtggctgt | 900 |
| ccagtggggc | tgtgagctgt | ggcaccacag | actggcgctg | gcccttcaga | aggatctagg | 960 |
| agaggggctt | gggagccac | ttttaatttc | tcaccccat | tttacaaga | gtgcttagat | 1020 |
| tcttacaat | tatgatgtaa | gttatccatt | tggttttttc | ctaactagtc | ttaccaaact | 1080 |
| tagggggaaa | cctgtgctcc | attaccacat | gggtgcaagt | cagcattgta | agttttctca | 1140 |
| ggttattatt | attagagagg | ttggaaacat | tggtaaactc | tggtgattga | gaaggaaaaa | 1200 |
| aaaagtccca | ttgaactgtt | gcaacaaatc | agaaatccac | ataaaagtgc | tctcctgcct | 1260 |
| gggcagcaac | aaccaagaac | aaagccccgg | gactgttttc | tttttaataa | agccacaggc | 1320 |
| aggcatcgta | gtccacagc | ccgaggggac | acaggatgga | aaccccagga | tgagaaggga | 1380 |
| gcagggagag | ttccagaaag | ggggatgaaa | taggagtatt | aaaaagctgc | gttggttaagt | 1440 |
| ttttcatgga | accaagattt | gacaaaaggca | tctcttatcc | ttggttttaa | attcctgctg | 1500 |
| ggagcaaggc | ctggtatgag | cgccttgggt | cttgtttttg | gtgtttcgct | tttctgtaag | 1560 |
| gattaagcag | atagggagaa | gggaaaaggg | gcctcacttt | agaatgaatg | agtcaccttg | 1620 |
| tgatttttaa | attttttatt | taataaaagt | aatcaatttc | taaaaaaaaa | aaaaaaaaaa | 1680 |
| aaaaaaaggg | cggccgctct | agaggatccc | tcgagggggc | caagcttacc | gtgcatgcga | 1740 |
| cggtatagct | ctctcctata | gtgagccta | | | | 1769 |

<210> 614

<211> 1903

<212> DNA

<213> Homo sapiens

<400> 614

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| saacaaagcc | ttctacttga | gcagtttttc | catcactgat | atgtgcagga | aatgaagaca | 60 |
| ttgcctgcc | tgcttggaac | tgggaaatta | ttttgggtct | tcttctta | cccatatctg | 120 |
| gacatctgga | acatccatgg | gaaagaatca | tgtgatgtac | agctttatat | aaagagacaa | 180 |
| tctgaacact | ccatcttagc | aggagatccc | tttgaactag | aatgcctgt | gaaatctgt | 240 |
| gctaacaggc | ctcatgtgac | ttggtgcaag | ctcaatggaa | caacatgtgt | aaaacttgaa | 300 |
| gatagacaaa | caagttggaa | ggaagagaag | aacatttcat | ttttcattct | acattttgaa | 360 |
| ccagtgtctt | ctaatagcaa | tgggtcatac | cgctgttctg | caaattttca | gtctaattct | 420 |
| attgaaagcc | actcaacaac | tctttatgtg | acagggtgag | tctcaacacc | tagaccatct | 480 |
| gatatttttc | ttataatgtt | tccaggaaga | gggggttcca | gtttctcaag | tgattatgtt | 540 |
| agaaagccaa | ctcctatagc | acatctgaaa | tctgctacac | ctcacagatt | gttatgtgcc | 600 |
| agtgtgtaca | tatgtgtgtg | tatgtgtgctg | tttgaggtga | gtgagataga | ggagagtaga | 660 |

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|------|
| gaaatagata | gtaaaagtta | ttgtttttga | ctttagggat | tataaaattt | atttgataag | 720 |
| tccaaaagta | gaccactgaa | atattgaaaa | aattataaag | tgaataccta | tagttgcgaa | 780 |
| tagctctgtg | attgcttgtc | cttctttgtt | gttttttttt | tctctttttc | ccatttttct | 840 |
| cttctttact | tttgttcatt | acaatttctt | gaagttatgt | ttgtggtgct | taggcaatta | 900 |
| aacacttctt | aatagttcac | agtttgttta | gaggaaaaac | agcaaacaac | taactgactt | 960 |
| cctagtgatt | ttctgggaat | attcagagct | tcctctctct | tccctgttcc | ccgaaagagg | 1020 |
| cctttaatat | gctttgacaa | ctgaggaagg | acagatagaa | gttaagcttg | gggaaacca | 1080 |
| gctgaataaa | acatgaaaaa | atacataggg | ggggagtagg | taagagtaaa | aaataacttg | 1140 |
| tttataaaaa | ttttatagcc | aacatcatat | tcaatgggtg | aaggcttaga | gctttcccc | 1200 |
| taagaacagg | aacaagacat | ggatccttgc | ttttgccatt | tccatttaac | attaaactga | 1260 |
| aaattctagc | cagagcaaac | aggcaagaac | aagaaataaa | agatatctaa | cttagaaaaa | 1320 |
| aagaagtaaa | actttattca | cagatggcat | gaacttatgt | gtagaaaaat | tcttaaaaaa | 1380 |
| ttgtttaaaa | ctattaaagc | taatacatga | atttagcaat | tccacatgat | acaggatcaa | 1440 |
| cacacaaaaa | tcagtgatat | ttctatacac | tagcaataaa | caatccacaa | agaaaaatta | 1500 |
| ggaaacagtt | ccatttaca | tagcatcaaa | atgaataaaa | tatttaagta | caaatttaac | 1560 |
| caaagaggta | taagagtgt | acactgaaca | aagaaagcat | ggctgaaaga | aattcaagaa | 1620 |
| tatgtaata | aatgcaaga | cattctgtat | tcatggactg | aaagatgtaa | tattgtaaa | 1680 |
| atagcaatat | tccccaaggt | gatctacaga | ttcaatgcag | ttccactaaa | atcctaacag | 1740 |
| ctttttgttg | ctattgcaga | aataaaaaag | ctgatccctaa | aattcacatt | gagttgcaac | 1800 |
| agaccagaa | ttgcaaaaac | aatcttgaaa | aagaacaaaa | ctgaagctaa | gacttcccta | 1860 |
| tttcaaaact | tactacaaaa | tgacagttaa | aaaaaaaaaa | aaa | | 1903 |

<210> 615

<211> 1051

<212> DNA

<213> Homo sapiens

<400> 615

| | | | | | | |
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| gcgcggccct | ccccatgtgc | agccggccag | ccgggctctc | ctcctcgagg | cggatgggtg | 60 |
| accttttctt | ggcacgggca | ggctgtggga | ggcagcggag | caggcgatga | agaagaagca | 120 |
| gcagcatccc | ggcggcggcg | cggatccctg | gccccatggg | gccccatagg | ggggcgcccc | 180 |
| tccgggcctg | ggcagctgga | agcgtcgggt | gccccctgctg | cctttctctg | gcttctccct | 240 |
| cctctatcag | ctcagcgggg | gacccctctg | cttctctctc | gacctgcggc | agtacttggg | 300 |
| aaattccact | tacttggatg | accatggacc | acctcctagt | aaggctactac | ctttcccaag | 360 |
| ccaggtgggtg | tacaacaggg | taggcaagtk | tgggagccgt | actgtggtct | tgcttctgag | 420 |
| aatcttgtcg | gagaagcacg | gatttaattt | ggtcacatca | gacattcaca | acaaaaccag | 480 |
| gcttactaaa | aatgaacaaa | tggaactgat | taaaaatata | agtactgccg | aacaacccta | 540 |
| tttattcact | cgacatgttc | atttctctca | cttctcaagg | tttgaggagg | accagcctgt | 600 |
| ctacatcaac | atcattagag | accccgctca | ccggttctta | tccaactatt | ttttccgtcg | 660 |
| ctttggagac | tggagagggg | aacaaaatca | catgatccgc | acccccagca | tgaggcagga | 720 |
| ggagcgctac | ctggatatca | atgagtgtat | tcttgaaaac | tatcccgagt | gctccaaccc | 780 |
| caggttattt | tacatcattc | cgyacttkkg | tggacagcat | cccagatgca | gggagcctgg | 840 |
| tgaatgggccc | cttgagagag | caaagctgaa | cgtgaatgaa | aacttctctg | tcgtggggat | 900 |
| tcttgaagag | ttggaagatg | tgctgctgtt | actggaaaaga | tttttacctc | attacttcaa | 960 |
| ggsgtgctc | agtactacaa | agaccagag | cacaggaagc | ttggaaacat | gactgtgacg | 1020 |
| gtgaagaaga | ctgtcccctc | tcctgaggct | g | | | 1051 |

<210> 616

<211> 1317

<212> DNA

<213> Homo sapiens

<400> 616

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| ccacgcgtcc | ggacgcggcc | acctccggaa | caagccatgg | tggcggctac | ggtggcagcg | 60 |
| gcgtggctgc | tcctgtgggc | tgccggcctgc | gcgcagcagg | agcaggactt | ctacgacttc | 120 |
| aaggcgggtca | acatccgggg | caaactgggtg | tcgctggaga | agtaccgcgg | atcggtgtcc | 180 |
| ctggtgggtga | atgtggccag | cgagtgcggc | ttcacagacc | agcactaccg | agccctgcag | 240 |
| cagctgcagc | gagacctggg | ccccaccac | ttcaacgtgc | tcgccttccc | ctgcaaccag | 300 |
| tttggccaac | aggagcctga | cagcaacaag | gagattgaga | gctttgcccc | ccgcacctac | 360 |
| agtgtctcat | tccccatgtt | tagcaagatt | gcagtcaccg | gtactgggtgc | ccatcctgcc | 420 |
| ttcaagtacc | tggcccagac | ttctgggaag | gagcccacct | ggaacttctg | gaagtaccta | 480 |

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gtagccccag atggaaaggt ggtaggggct tgggacccaa ctgtgtcagt ggaggaggct 540
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ccaccgcgtc tcctcctcca ccacctcatc ccgccacact gtgtggggct gaccaatgca 660
aactcaaatg gtgcttcaaa gggagagacc cactgactct ccttccttta ctcttatgcc 720
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gcaacaaata ggaactcctg gccaatgaga gctcttgacc agtgaatcac cagccgatac 840
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tgaaatacct gtgaaagtgc ctaggcagtg ccagccaaat aggaggcatt caatgaacat 1020
tttttgcaaa taaacaaaaa aataacttgt tatcaataaa aacttgcatc caacatgaat 1080
ttccagccga tgataatcca ggccaaaggt ttagttgttg ttatttcctc tgtattattt 1140
tcttcattac aaaagaaatg caagttcatt gtaacaatcc aaacaatacc tcacgatata 1200
aaataaaaaa gaaagtatcc tcctcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1317

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<210> 617

<211> 1138

<212> DNA

<213> Homo sapiens

<400> 617

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acagagttag actctttctc ccaaaaaaaaa aaaaaaaaaa aaagtcaaat gcagctggga 180
atgtggttcg tgcctttttg tatattaacc atttgaaact tggttgtaag gtggggttg 240
caatgtcagg cctggctgca gcagctcatg tcttttagagt gtgcctcttc cctctctcgt 300
ggggctcgag caagactacc ttcatacatg ggctctccag ttacatagca actccagtgt 360
taaattccat cttttcttcc tggaaaagcc gtagaaagga cacctggaca tgcctgctgc 420
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gctgtgtgtg cataagaagt agttcggatg atgtgggtcc caccatgtat tccttctctg 540
ttccatgtag agtaaaataa atgggagttc tgtttaatgc atcacctcgg ttcataattg 600
atttgccaag aaagtgcaat tttattgaac attaggattg aattcttaac tgagtaatca 660
atttcagtag taagttaaaa tgccttctat taatggacaa ctgcaaccgt taatcagagt 720
tacagtagat taacagttgt cagcatttat gctaatagca ctaataaacc gtgggctcat 780
gatttgcact ttataattcc atatttctca aaacagttgg taatactttt tgcctgaagg 840
tattgattct tttgtccctt tgcctgtctc ttggagatgt agagaaagct aatgacatt 900
ttcacgggtg tgacacaata tcacctctg cttttgcaca cttggctttg tgtcaaaata 960
gatggaaagg gttcatttgt tctggtgctc tactgtttaa tttgatctgg tgtgtgacta 1020
aagcaagaca aatagtattt ttaatgaaac catttaataa cctctggtag cttagagtcg 1080
aaggcattgg aaaaatgcaa ttaaaggatg cctagatgta aacaaaaaaa aaaaaaaa 1138

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<210> 618

<211> 1841

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 618

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cggctcagtc ggtctgcgag gatccggccc gccgcccccc gggggacccg atggcctcgg 120
agggcctggc gggggcgctg gcttccgtgc tggctggcca ggggtccagc gtgcacagct 180
gcgactcgcc gccggccggg gagccgccgg cgcccgctgc gctgcggaag aacgtgtgct 240
acgtggtgct ggccgtgttc ctacgcgagc aggatgaggt gctactgatc caggaggcca 300
agagggagtg ccgggggtcg tggtaacctg ctgcggggag aatggagcca ggggagacca 360
tcgtggaggc gctgcagcgg gagtgaaagg aggagggcgg gctgcactgt gagcccagga 420
cactgctgct cgtggaggag cggggccccc cctgggtccg ctctgtgttc ctgcctcgcc 480
ccacaggtgg aattctcaag acttccaagg aggccgatgc ggagtcctg caggctgcct 540

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ggtagccacg gacctccctg cccactccgc tgcgagccca tgacatcctg cacctgggtg 600
aactagccgc ccagtatcgc cagcaagcca ggcaccctct cattctgccc caagagctac 660
cctgtgatct ggtctgccag cggctcgtgg ctacctttac cagcgcccag acagtgtggg 720
tgttagtggg cacagtgggg atgcctcact tgctgtcac tgcctgtggc ctcgaccctg 780
tggagcagag ggtggcatg aagatggccg tcctgcccgt gctgcaggag tgtctgaccc 840
tgcaccactt ggtggtggag atcaagggtt tgcttgact gcagcacctg ggccgagatc 900
acagtgatgg catctgtttg aatgtgctgg tgaccgtggc ttttcggagc ccagggatcc 960
aggatgaacc ccaaaaagt cggggtgaga acttctcttg gtggaagggt atggaggaag 1020
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cggctctcct ggtccccagg agagatgctt tgaggagcat tcctctagat tgcacaaggg 1260
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<210> 619

<211> 1133

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1078)..(1078)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1102)..(1102)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1107)..(1107)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1111)..(1111)

<223> n equals a,t,g, or c

<400> 619

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cagggagttg cccgcagccg caccgcacgt cttcagccc accgttgtcc tgacctctct 180
gtcccgtccc ctgcccagtc tcaccatggc cttctggaca cagctgatgc tgctgctctg 240
gaagaatttc atgtatcgcc ggagacagcc ggtccagctc ctggctgaat tgctgtggcc 300
tctcttctc ttcttcatcc tgggtggctgt tcgccactcc caccgcgcc tggagcacca 360
tgaatgccac ttcccaaaca agccactgcc atcgcggggc accgtgccct ggctccaggg 420

```


| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| tctcatctgt | aatgtgaaca | acacctgctt | tccgcagctg | acaccgggag | aggagcccg | 480 |
| gcgcctgagc | aacttcaacg | actccctggt | ctcccgctg | ctagccgatg | cccgcactgt | 540 |
| gctgggaggg | gccagtccc | acaggacgct | ggctggccta | gggaagctga | tgcgccagct | 600 |
| gagggctgca | cgcagcacgg | cccagcctca | accaaccaag | cagtctccac | tgggaaccacc | 660 |
| catgctggat | gtcgcggagc | tgtgtacgtc | actgtgcgc | acggaatccc | tgggggtggc | 720 |
| actgggcca | gcccaggagc | ccttgcacag | cttgttgag | gccgctgagg | acctggcca | 780 |
| ggagctcctg | gcgctgcgca | gcctgggtga | gcttcgggca | ctgctgcaga | gaccccgagg | 840 |
| gaccagcggc | cccttgaggt | tgtgtgcaga | ggcctctgc | agtgtcagg | gacctagcag | 900 |
| cacagtgggc | ccctccctca | actggtacga | ggctagtgc | ctgatggagc | tgggtgggca | 960 |
| rgarccagaa | tccgcctgca | gacagcagct | gagcccgtg | ctcgagctk | attggagcct | 1020 |
| ggacagcacc | cgggtgtccg | tgggtctgga | cgctgaagct | ntatcctcgg | aagtactntt | 1080 |
| gacagatcac | tttaccgaag | tnatggncag | ngaacgactt | cagagttacc | tgt | 1133 |

<210> 620

<211> 753

<212> DNA

<213> Homo sapiens

<400> 620

| | | | | | | |
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| accatcccc | ttctggatcc | ctactttacc | ccttcatgct | gctctgggtg | cagtgcctct | 120 |
| gctgccatgc | tgtacttgag | cctgctgcta | cagccatgcc | tgaagatgca | gcccccttcc | 180 |
| ctcttctgt | cccaccaa | atgaccagct | ctaggttcca | ttacttctgg | actttgtctc | 240 |
| aaataaaact | tacacaat | tattccaaac | ccaggtctct | ttctgcaaca | cccagagaaa | 300 |
| atattgggct | gcaggagcca | gagaggagag | agagatttac | tgggtgagag | tgtagggtgg | 360 |
| aattgaaaag | ccaagtcag | tctttgcccc | accagaaa | cactaggatg | tacacaatgc | 420 |
| cactgtgatg | gttttaaa | atgtaactaa | cctgcacgtt | gtgcacatgt | accctaaaac | 480 |
| ttcaagtata | tataaaaa | gaaagaactg | ctgatacaca | tatcatgaaa | aaagaccaa | 540 |
| taaaataaaa | aaataaaa | aaataaata | aataaaat | gtccacaa | gctttgatgt | 600 |
| tcctttgttt | cttgatctgt | atgctagcaa | cacagggtca | ttccgtttgt | gaaaattcat | 660 |
| tgagctgtgc | tcttatgagc | tgtgtacttc | tctacatgta | tgttaa | ggacaagaac | 720 |
| ttcacataaa | aatcatttta | aaaaaaaa | aaa | | | 753 |

<210> 621

<211> 1604

<212> DNA

<213> Homo sapiens

<400> 621

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|------|
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| ttccttattg | cctctccata | atagaaaaac | tctttaatga | gctctctttt | tgtttttcaa | 120 |
| atcagatagc | caaagaagct | cataacaatt | ttttttaaaa | atgcaaaaca | agaatctcca | 180 |
| attatgggag | caaaatcttc | agcttctggg | ttcctgtctc | actgaggaaa | tggatttgaa | 240 |
| atggcaagga | ggaaatgagg | aggcaaactt | tcatgtctat | tttagttttc | caatgcagtc | 300 |
| ctatttcctt | tggactttgt | ataaacaagg | aaaggacagt | tgttagttca | gttattacag | 360 |
| ataacctgtg | tctttaaagt | aaatgtatct | taaataagta | ggactcccat | aaatgactac | 420 |
| actttttcaa | aatatgactc | cccagcttat | aacaagaata | atagcaaa | tcactttatt | 480 |
| aagcaattac | tatgtaaaag | acacttagtg | cttagcacac | actggaaaata | ttgttgactg | 540 |
| gctatatttt | ccccagaaat | cccatttctg | aaagcctatt | acaaagaaat | aaaatcatca | 600 |
| gtataacaaa | ggagtgtgtg | tgtgtgtggg | tgtgagtgtg | tgtgggtgtg | agtgtgtggg | 660 |
| gggtgtgagt | gtgtgtgggt | gtgagagtgt | gtgtgtgagt | gtgagtgtgt | gtgtgtgtaa | 720 |
| gtgcacacac | atgtttagt | attgttcata | gtggcaaaaa | ctagaaacaa | agtgaatatt | 780 |
| gataacatgg | gcacagatga | caaattatat | ctccaaatta | tgaacagaa | tccagccatt | 840 |
| aaaatcagag | ctttgccacg | tgactaggat | gaagttacaa | aaagtattgt | tgagtggaga | 900 |
| aagcaggata | cataggatac | atggaattga | ctataaatatg | atttcttttt | tttttttttt | 960 |
| gagatggagt | ctcgtctgt | cactcaggct | ggagtgcagt | ggcacaatct | cagctcactg | 1020 |
| caacctccgc | ctcccgatt | caagcaattc | tcctccctca | gcctcctgag | tagctgggac | 1080 |
| taccgtcacc | tgccaccacg | ccccagctaa | tttttgatt | tttagtagag | atgggctttc | 1140 |
| accatattgg | tcacgtgat | ctcaaaatcc | tgacctcagg | tgatccacct | gcctcagcct | 1200 |
| cccaaagtgc | tgggattaca | gtcgtgagcc | actgcacctg | gccgatttct | tttttaaaat | 1260 |
| gatcaaaaa | ccatttatat | gtgggaatat | agctatatac | ttttattatt | gaattaccat | 1320 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| ggaaaaaac | atggaagagg | gaggccaagg | caggagaatc | acttgaggcc | caggagtttg | 1380 |
| agaccagcct | gggcaacaaa | gcgagaccct | catctctact | aaaaatacaa | aaattacctg | 1440 |
| ggcctggtga | cacatgcctg | taatcccagc | tactcagaag | actaaggcaa | gtgaatcgct | 1500 |
| tgaaccgag | acgtggagg | tgcagtgaag | tgagccaaga | tcgcgccgtt | gcactccagc | 1560 |
| ctggtgacag | agtgaagatc | tttctcaaaa | aaaaaaaaaa | aaaa | | 1604 |

<210> 622

<211> 1021

<212> DNA

<213> Homo sapiens

<400> 622

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|------|
| ccacgcgtcc | ggataggcac | aggacaggag | taggcacctc | gcctactgct | gcttaacctt | 60 |
| tcagcttctc | caggccccc | atcctgcttg | ctcccagctt | gggaacgaga | cactgctgag | 120 |
| ctggaagact | tcgcgggcca | caggcacagc | cttctctgtg | ctggcggcgc | tgctggggct | 180 |
| gcctggcaac | ggcttctgtg | tgtggagctt | ggcgggctgg | cgccctgcac | gggggagacc | 240 |
| gctggcggcc | acgcttgtgc | tgacactggc | gctggccgac | ggcgcggtgc | tgctgctcac | 300 |
| gccgctcttt | gtggccttcc | tgaccggcca | ggcctggccg | ctgggcccag | cgggctgcaa | 360 |
| ggcggtgtac | tacgtgtgcg | cgctcagcat | gtacgccagc | gtgctgctca | ccggcctgct | 420 |
| cagcctgcag | cgctgcctcg | cagtcacccg | cccttctctg | cgccctggct | gcgcagcccg | 480 |
| gcctggcccg | ccgctgctgc | tgccgggtctg | gctggccgcc | ctgttgctcg | ccgtcccggc | 540 |
| cgccgtctac | cgccacctgt | ggaggggaccg | cgtatgccag | ctgtgccacc | cgtcgccggt | 600 |
| ccacgcggcc | gcccacctga | gcctggagac | tctgaccgct | ttcgtgcttc | ctttcgggct | 660 |
| gatgctcggc | tgctacagcg | tgacgctggc | acggctgcgg | ggcgcccgc | ggggctccgg | 720 |
| gcggcacggg | gcgcgggtgg | gccggctggt | gagcgccatc | gtgcttccct | cggcttgctc | 780 |
| tgggccccct | accacgcagt | caaccttctg | caggcggtcg | cagcgctggc | tccaccggaa | 840 |
| ggggccttgg | cgaagctggg | cggagccggc | caggcgccgc | gagcgggaac | tacggccttg | 900 |
| gccttcttca | gttctagcgt | caaccgggtg | ctctacgtct | tcaccgctgg | agatctgctg | 960 |
| ccccgggcag | gtccccgttt | cctcacgcgg | ctcttcgaag | gctctgggga | ggcccagggg | 1020 |
| g | | | | | | 1021 |

<210> 623

<211> 985

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 623

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| nagccgggtcc | aggcctctgg | cgaacatggc | gcttgtcccc | tgccagggtgc | tgccgatggc | 60 |
| aatcttgctg | tcttactgct | ctatctgtg | taactacaag | gccatcgaaa | tgccctcaca | 120 |
| ccagacctac | ggaggagact | ggaaattcct | gacgttcatt | gatctgggta | tccagggtgt | 180 |
| cttttttggc | atctgtgtgc | tgactgatct | ttccagtcct | ctgactcgag | gaagtgggaa | 240 |
| ccaggagcaa | gagaggcagc | tcaagaagct | catctctctc | cgggactgga | tgtagctgt | 300 |
| gttggccttt | cctgttgggg | tttttgtgt | agcagtgttc | tggatcattt | atgcctatga | 360 |
| cagagagatg | atatacccca | agctgctgga | taattttatc | ccagggtggc | tgaatcacgg | 420 |
| aatgcacacg | acggttctgc | cctttatatt | aatcgagatg | aggacatcgc | accatcagta | 480 |
| tcccagcagg | agcagcggac | ttaccgccat | atgtaccttc | tctgttggct | atatattatg | 540 |
| gtgtgtgctg | gtgcatcatg | taactggcat | gtgggtgtac | cctttcctgg | aacacattgg | 600 |
| cccaggagcc | agaatcatct | tctttgggtc | tacaaccatc | ttaatgaact | tcctgtacct | 660 |
| gctggggagaa | gttctgaaca | actatatctg | ggatacacag | aaaagctgtg | catttggatc | 720 |
| agctgctatt | tggaataacg | aatcactgaa | atccaggggt | ccagagttat | tttgatggca | 780 |
| taaaagctga | ttggttggat | agcataagac | cacaaaaaga | aggagacttc | agaaaggaga | 840 |
| ttaacaagcg | gtggaataac | ctaagtgatg | gccagcggac | tcagggtatca | tagctgcaaa | 900 |
| cgctccttga | ttctgtttgt | ggagagtacc | ttctctgcag | tggaacagtga | tctgatattt | 960 |
| caaattctat | ccagcctcca | aaagt | | | | 985 |

<210> 624

<211> 1445

<212> DNA

<213> Homo sapiens

<400> 624

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ggaaggctgc aggaccagga ccgaaaaagg actaggagggc tgggatcagc aacaactggg      60
gaaggccaag gaagactgac ctgaggggaa aggagaaact ggggaggtga ggtctactac      120
tcaacaggat attcttcaag gaaaatgaac ccacactag gcctggccat ttttctggct      180
gttctcctca cgggtgaaagg tcttctaaag ccgagcttct caccaaggaa ttataaagct      240
ttgagcgagg tccaaggatg gaagcaaagg atggcagcca aggagcttgc aaggcagaac      300
atggacttag gctttaagct gctcaagaag ctggcctttt acaaccctgg caggaacatc      360
ttcctatccc ccttgagcat ctctacagct ttctccatgc tgtgcctggg tgcccaggac      420
agcaccctgg acgagatcaa gcagggggtt aacttcagaa agatgccaga aaaagatctt      480
catgaggggt tccattacat catccacgag ctgaccaga agaccagga cctcaaactg      540
agcattggga acacgctgtt cattgaccag aggctgcagc cacagcgtaa gtttttggaa      600
gatgccaaaga acttttacag tgccgaaacc atccttacca actttcagaa tttggaaatg      660
gctcagaagc agatcaatga ctttatcagt caaaaaacc atgggaaaat taacaacctg      720
atcgagaata tagacccccg cactgtgatg cttcttgcaa attatatttt ctttcgagcc      780
agggtggaac atgagtttga tccaaatgta actaaagagg aagatttctt tctggagaaa      840
aacagttcag tcaagggtgcc catgatgttc cgtagtggca tataccaagt tggctatgac      900
gataagctct cttgcacat cctggaaaata cctaccaga aaaatatcac agccatcttc      960
atccttctct atgagggcaa gctgaagcac ttggagaagg gattgcaggt ggacactttc     1020
tccagatgga aaacattact gtcacgcagg gtcgtagacg tgtctgtacc cagactccac     1080
atgacgggca ccttcgacct gaagaagact ctctcctaca taggtgtctc caaaatcttt     1140
gaggaacatg gtgatctcac caagatcgcc cctcatcgca gcctgaaagt gggcgaggct     1200
gtgcacaagg ctgagctgaa gatggatgag aggggtacgg aaggggcccg tggcaccgga     1260
gcacagactc tgcccatgga gacaccactc gtcgtcaaga tagacaaacc ctatctgctg     1320
ctgattttaca cgcagaaaat accttccgtg ctcttctctg gaaagattgt taaccctatt     1380
ggaaaaataa ggagaattcc tgcttgccac agaccccgaa aaaaaaaaaa aaaaagggcg     1440
gccgc

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<210> 625

<211> 1699

<212> DNA

<213> Homo sapiens

<400> 625

```

acgcgtccgc gccaaaggag caggacggag ccatggaccc cgccaggaaa gcagggtgcc      60
aggccatgat ctgactgca ggctggctgc tgctgctgct gcttcgcgga ggagcgcagg      120
ccctggagtg ctacagctgc gtgcagaaag cagatgacgg atgctccccg aacaagatga      180
agacagtga gtgcgcgccg ggcgtggacg tctgcaccga ggcggtgggg gcggtggaga      240
ccatccacgg acaattctcg ctggcagtg cgggttgccg ttcgggactc cccggcaaga      300
atgaccgcgg cctggatctt cacgggcttc tggcgttcat ccagctgcag caatgcgctc      360
aggatcgctg caacgccaag ctcaacctca cctcgcgggc gctcgacccg gcaggtaatg      420
agagtgcata cccgcccaac ggcgtggagt gctacagctg tgtgggcctg agccgggagg      480
cgtgccaggg tacatcgccg ccggtcgtga gctgctacaa cgccagcgat catgtctaca      540
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tccggggctg tgtccaggat gaattctgca ctcgggatgg agtaacaggc ccagggttca      660
cgctcagtg ctcctgttgc caggggtccc gctgtaactc tgacctccgc aacaagacct      720
acttctcccc tcgaatccca ccccttgtec ggctgcccc tccagagccc acgactgtgg      780
cctcaaccac atctgtcacc acttctacct cggccccagt gagaccaca tccaccacca      840
aaccatgcc agcgccaacc agtcagactc cgagacaggg agtagaacac gaggcctccc      900
gggatgagga gcccagggtg actggaggcg ccgctggcca ccaggaccgc agcaattcag      960
ggcagtatcc tgcaaaagg gggccccagc agccccataa taaaggctgt gtggctcccc     1020
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cacctggaaa tttccctctc acctacttct ctggccctgg gtacctctc tctcatcact     1140
tctgttcccc accactggac tgggctggcc cagccctgt tttccaaca tccccagta     1200
tccccagctt ctgctgcgct ggtttgcggc tttgggaaat aaaataccgt tgtatatatt     1260
ctgccagggg tgttctagct ttttgaggac agctcctgta tccttctcat ccttgtctct     1320
ccgcttgtcc tcttgtgatg ttaggacaga gtgagagaag tcagctgtca cggggaagg     1380
gagagagagg atgctaagct tcctactcac tttctcctag ccagcctgga ctttgaggcg     1440

```

```

tggggtgggt gggacaatgg ctccccactc taagcactgc ctcccctact ccccgcatct 1500
ttggggaatc ggttcccat atgtcttccct tactagactg tgagctcctc gagggcaggg 1560
accgtgcctt atgtctgtgt gtgatcagtt tctggcacat aaatgcctca ataaagattt 1620
aattactttg taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa

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<210> 626

<211> 1529

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1505)..(1505)

<223> n equals a,t,g, or c

<400> 626

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cagctcagct gatcggttgc cgccgcccgc gccgccagat tctggaggcg aagaacgcaa 120
agctgagaac atggacgtta atatcgcccc actccgcgcc tgggacgatt tcttcccggg 180
ttccgatcgc tttgcccggc cggacttcag ggacatttcc aaatggaaca accgcgtagt 240
gagcaacctg ctctattacc agaccaacta cctgggtggg gctgccatga tgatttccat 300
tgtgggggtt ctgagtcctt tcaacatgat cctgggagga atcgtgggtg tgctgggtgt 360
cacagggttt gtgtgggcag ccacacaata agacgtcctt cgccggatga agaagcgcta 420
ccccacgacg ttcgttatgg tggtcatgtt ggcgagctat ttccttatct ccatgtttgg 480
aggagtcagtg gtctttgtgt ttggcattac ttttcctttg ctgttgatgt ttatccatgc 540
atcgttgaga cttcggaacc tcaagaacaa actggagaat aaaatggaag gaataggttt 600
gaagaggaca ccgatgggca ttgtcctgga tgccctagaa cagcaggaag aaggcatcaa 660
cagactcact gactatatca gcaaagtga ggaataaaca taacttacct gagctagggg 720
tgcagcagaa attgagttgc agcttgccct tgtccagacc tatktttctgc ttgctgtttt 780
gaaacaggag gtgcacgtac caccacaata tctatggcag catgcatgta taggcggaac 840
tattatcagc tctgatgttt cagagagaag acctcagaaa ccgaaagaaa accaccaccc 900
tcctattgtg tctgaagttt cacgtgtgtt tatgaaatct aatgggaaat ggatcacacg 960
atttctttaa gggaattaaa aaaaataaaa gaattacggc ttttacagca acaatacgat 1020
tatcttatag gaaaaaaaaa atcattgtaa agtatcaaga caatacgagt aaatgaaaag 1080
gctgttaaag tagatgacat tattattctc ttaaaaatca aagatgatct ctatcacttt 1200
gtgggatata aattagtttt catgtgttag cctgttccct atcccctaga attgtaatgt 1140
gccacctgtt tgatgtgcag tggaaactgg ttaagccagt tgttcatact tcstttacaa 1260
atataaagat agctgttttag gatattttgt tacatttttg taaatttttg aaatgctagt 1320
aatgtgtttt caccagcaag tatttgttgc aaacttaatg tcattttcct taagatgggt 1380
acagctatgt aacctgtatt attctggacg gacttattaa aatacaaaaa gacaaaaaat 1440
aaaacaaaaa aaaaaaaaaa gggcgccgcg tctagaggat ccckcgaggg gcccaagcgt 1500
ttcngtarg ttccccttaa agaccccg

```

<210> 627

<211> 1218

<212> DNA

<213> Homo sapiens

<400> 627

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ccacgcgtcc gatctgtctt tttgctttta gcatecta at gagtatgaaa tgctatcttg 60
tggttttgat ttgcattccc ctgatggcaa ctgatgtga gtgtcttttc ctgtgcttac 120
gggccatgcy tatttctttg gagaagggtc tatccagggt ctttgcctat ttttaattga 180
gttgtctttt ttttttaagt tttctgtttt cctaaccact agactaccag ggaatgagcct 240
tctttttatt attgagttgg gtgagctatt tgtatattct agacgccagt cttttatcag 300
gtatatgact ggtaaaaaatg ttctccctt atgattttcca agatacgtat ttttttcta 360
tcctttgaga caaaaaactt ttttaacttt atgattttcca agatacgtat ttttttcta 420
ttgtcacttg tgcttttggg gccatatcta gaaaaccatt gcctaatacca aggtcaagaa 480
gattaatgcc tgtgttttct tctaagaact tgtatagttt tagttctcac aatgggtctt 540
gatccatttc gagtatattt ttatatatga tgtgatgtag ggggtccagct tcattctttt 600
gcttgtggat ctccacttgt cccactgctg attattgaga aaaatatcct ttctccacgg 660

```

```

aattgtcttg gcaccccttg taaaggcctc tgcttcttac tggatcttct ttcctgggac 720
atgggtgctg tgggaagcct accctttttt ttttttactt agtctgtgtt tggttccacc 780
agttttatgc tgcctttcta ctctgttctt gctgtctccc tctttacctg agtcaacggt 840
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acactagtcct ttggaggaag gttgagacca atgatttccct gttatgagtc atgaggaaac 960
tgaatcacct agaagtggaa taatgtgctc agggtcacca tagccatta gtggaaggac 1020
caggactaga cctttagtct tctgaggtcc agccccttag gctgtctgtc atcactgtac 1080
ccaagtgatg tcactaccaa ggccaaatga tgggtgggcta aattttaatt ctcaaaagtg 1140
taggaggcta atattgtctt ctaagttcca aaagaagatg taataaaagt ctgttacctt 1200
aaaaaaaaa aaaaaagg 1218

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<210> 628

<211> 831

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (10)..(11)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (15)..(15)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (27)..(27)

<223> n equals a,t,g, or c

<400> 628

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tcccgggtcg acccacgctg ccgggggaaw tcccagtcga tttttccaag cagtactccg 120
cttccctggat gtgtttgtct ctcttggtcg cactggcctg ctctgctgga gacacatggg 180
cttcagaagt tggcccagtt ctgagtaaaa gttctccaag actgataaca acctgggaga 240
aagttccagt tggtagcaat ggaggagtta cagtgggtgg ccttgtctcc agtctccttg 300
gtggtacctt tgtgggcatt gcatacttcc tcacacagct gatttttgtg aatgatttag 360
acatttctgc cccgcagtgg ccaattattg catttgggtg ttagctgga ttactaggat 420
caattgtgga ctcatactta ggggctacaa tgcagtatac tgggttggtg gaaagcactg 480
gcatgggtgt caacagccca acaataaakg caaggcacat agcagggaaa cccattcttg 540
ataacaacgc agtgaatctg ttttcttctg ttcttattgc cctcttgctc ccaactgctg 600
cttgggggtt ttggcccagg ggggtgaactt tatttcattt ccmcagggtg aaactgaatg 660
ggcagttcat gktaaaatcm cttttcatgg aaagagctct atgtaacagc ataataaac 720
tgsctaccta gcagcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggcg 780
gccgtcttag aggatccaag cttacgtacg cgtgcatgcy acatcatagc t 831

```

<210> 629

<211> 637

<212> DNA

<213> Homo sapiens

<400> 629

```

gattttcctg cttgcatcat ttctagcaca gagctggagg aaatggcgag gtgcagggtg 60
ccgctggccm tgctgttcta catgggagca agacagctgc taggtgaagg ggaatgacca 120
ggcagccaca gggaggacat gtggcctcag gaagcctggg tgtgtatcct gggtctgcta 180

```

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| ggaacacgtg | tggggctttg | tgtgggtgac | tctctggctc | cccaagcctc | cctttcctac | 240 |
| tggtatatcc | ttaaagtgcc | tctgaggcca | aagcctttgt | ggcaattgtc | aatgagtgcc | 300 |
| atatgcagtg | agtaccgtgt | tgagggagga | caaggtcacc | aagagctgag | aatgtttctc | 360 |
| cgactgatga | gacctagata | ttgggtacat | ggagggtccc | gggtccctttg | tgattcctgc | 420 |
| agcctgttgc | ctccttgcc | ggaccccgcc | tcagctcaga | aagccaattc | cctagattcc | 480 |
| aaaggccttc | ccagaccaat | tagcatgtcc | tcagctgtgc | agctccctgt | gcctagcctg | 540 |
| gacctcagct | catgtctagc | acccagtctc | ccaacccac | acatattcac | aaataaaaga | 600 |
| aaataacaaa | tgaaaaaaa | aaaaaaaaa | aaaaaat | | | 637 |

<210> 630

<211> 3337

<212> DNA

<213> Homo sapiens

<400> 630

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|------|
| ggttgatttc | ccctcaactt | tccacaggtg | tcttaaaagc | tttgctcact | catcccttct | 60 |
| ctgacttagg | atttgagcat | ctttctgtta | tgtctgtgcc | ccactcctat | tgcaatactc | 120 |
| ctcttcttaa | gaaagttttt | ctagactaat | gtctagatta | aacttctttt | ctttgacaat | 180 |
| aatgatgcca | tgacttggac | aaaatgcccc | ttgcctctgg | gtcctgcttt | cttcacccag | 240 |
| tgctgcctta | ttggactcct | tgtgcctctc | cttggctggg | gaaatcagaa | tacacagtgg | 300 |
| tatcccactt | ctaagatgcc | tgatctgaag | gacagtaaaa | caactgacct | ttgccagcat | 360 |
| gtaaaacaca | tggtttaact | agtccctccg | gaacaacamt | gagcaatcct | gacctgggac | 420 |
| tactttactc | ggccatctcc | tacttgagat | gtccttgtc | tctctgttca | aggacacctt | 480 |
| ttctgagcct | ttcttgaaca | agagtggagg | accgataggc | gattaaactg | tccttgacac | 540 |
| aacttttagag | cttcwactga | gaatctagaa | gagagtagat | ggaaaaatat | ttttccctcc | 600 |
| cctccaaatg | caaggataat | cttacacgag | tccaggagga | aggctcattc | cacactaaagt | 660 |
| gttctgaatc | aaaaagatga | acaaaataca | gtgccattct | tcaaggrrctt | cacagtctac | 720 |
| aggaaagggw | tatagttaaa | caaataactg | cagaattgga | aattggagct | gatgtgctta | 780 |
| gaagtgtttt | gaacaagggg | catgactgtg | actctctctg | cttttgcaag | cttcaggaaa | 840 |
| acctttactc | acagttgaaa | atacagagcc | tcagggtgaa | gccctaactt | cccacagcag | 900 |
| atgggggtcta | tgaggaggaa | gaagtagacg | catggaccag | tcctgttatg | aagacaagtt | 960 |
| tcatgggtgct | actgtgtctc | catgagctcc | tatggcccag | aagctggcat | cctgtgagtg | 1020 |
| gacggagtct | tgctcggtcg | cccaggctgg | agtgcagtta | aatgaaaaaa | cgtaccacaga | 1080 |
| cagagggtct | aaaacagcac | caaaatatta | atttaatgag | tgagawtag | ttttctttat | 1140 |
| caacactaca | atttcttttt | cttttttttt | tttttttttt | ttttgagacg | tagtctcact | 1200 |
| ctgtcgctca | ggctggagtg | cagtggcaca | atctcggtc | actgcaagct | ccgcctcccg | 1260 |
| ggttcacacc | attctcctgc | ctcagcctcc | caagttagctg | ggactacagg | tgcccaccac | 1320 |
| cacgcccagc | taatgttctg | tatttttagt | agagatgggg | tttactgtg | ttatctagga | 1380 |
| tggctcgatc | tcctgacctc | gtgatctgcc | cgctcggcct | cccaaagtgc | tggaattaca | 1440 |
| ggtgtgagcc | acattgcccc | gcccatttat | gktgktttta | tccatctaac | cagccaccat | 1500 |
| atattgtgtg | cttcccatgt | accacaacac | attctgagaa | cttgccacac | atgctctact | 1560 |
| ttcgtcttca | catcaacaat | gtgaatctta | agctgtgtgtg | aattttgtcc | aaaatgactc | 1620 |
| agataggaaa | aggcagaata | aggaatacat | tccagttgtc | tccaaagtcc | acccttttct | 1680 |
| aagtgtcaca | ttatatgtgc | cttgccactg | gcacacagct | taaaataaaag | tcaaaccatg | 1740 |
| agaagccata | gaaagtaata | tcagagtaca | ggtgagaagt | tgcaattaca | ttaatgatca | 1800 |
| ttcaagactt | cctggagaag | gcacgagttg | tcctttggag | tgaccaagac | tcacttccaa | 1860 |
| gtagaaagct | cagtaatttt | gcttgagaga | tagcatggaa | agggcccgat | cttcagagtg | 1920 |
| tggctgactt | gaatttgagc | tctatcttca | tctatttcta | cccatgtgcc | tctggacatc | 1980 |
| ttacttaacc | tctctgaatc | ttcatcttgt | cattgtgaga | aacctgattg | acttgttgta | 2040 |
| aagattaaag | aaatcatgaa | acacatctag | tccaaaactg | atactatagt | agacatttaa | 2100 |
| caagtgatgt | ttgatttaat | tcaagtctct | aggttatagt | aagacaatgg | caaaatatta | 2160 |
| attaatcagc | ttctccagtt | tgtgcgtttg | agaagggtaa | gccaaaggag | gactttgttt | 2220 |
| tcatatctca | tattgcatcg | tttgcataaa | aaattacaca | tttatacaag | cgcgcacaca | 2280 |
| cacacacaca | cacaggcaca | aacactcaga | catgagccac | aatccacaat | gaaggagtg | 2340 |
| ttagagtgtc | taggcacat | aataaaactt | cacataaagt | acagcagtag | cattcttaat | 2400 |
| taaaatctct | aaagtactct | tgttgttgac | aatatcrcca | cccaaagcca | tatttacctt | 2460 |
| gttaattatt | caagttgcag | tgaataagaa | acaatgcccc | ggcttcccat | aaaatttcca | 2520 |
| aaaattaaac | cagggaaatg | ggcaataaat | gtcatttgaa | atggaaactga | tgccaggttaa | 2580 |
| ttacaagaca | actgtaaaa | aatggggcat | gaggttcttc | aacaatgcct | aattagtaac | 2640 |
| tatatgggca | tttccctgga | aaaaatggca | attacacggt | gcaaacactt | agcagtcac | 2700 |
| atcaaaggcc | cttaaccaat | attagcta | taattctccc | tacaacactc | cagcaggagg | 2760 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| cagcacaagt | cctcattgag | ggagggagaa | kggaagccaa | aagatgaaat | ggaaaatcct | 2820 |
| cttctgctca | gcatctgtaa | agaacaattt | gacactcgca | gcctagaagc | actcaggagg | 2880 |
| gattcccagr | ccaagagaga | gagttttcct | taatgataag | gttaatgtgg | tgaacaccta | 2940 |
| gcttcctcct | gatttgctgc | catggctcac | atccttgctg | tccycgagaa | ctccccacac | 3000 |
| caaattgctg | ttgcaggcac | acatgcactc | ttgcgcttat | caaccctttt | ctctttttct | 3060 |
| cagcaagaag | gcttttgacc | tcaaataat | aaaaccaatg | gggggagaag | gaagctatgc | 3120 |
| ctctttccac | aaagccaagc | ttgttatatt | ataacatgat | ccacagcttt | tgatttcaac | 3180 |
| ttaatgtatg | agatctggaa | ttatttcaga | agtatgattg | attttgatca | ggtgaagata | 3240 |
| ttttaaaaga | agtgaattat | ctcttatgtt | acttaattta | atccacatta | aagatttatg | 3300 |
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<210> 631

<211> 1547

<212> DNA

<213> Homo sapiens

<400> 631

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|-------------|------------|-------------|-------------|------------|-------------|------|
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| tctgcaggaa | gctgaagtga | gagggcccga | gagggcccag | cccggcccgg | gcaggatgac | 120 |
| caaggcccgg | ctgttccggc | tgtggctggg | gctggggtcg | gtgttcatga | tcctgctgat | 180 |
| catctgtgac | tgggacagcg | cagcgccgcg | cacttctact | tgcacacgtc | cttctctagg | 240 |
| ccgcacacgg | ggccgcccgt | gcccacgccc | gggcccggaca | ggacaggagg | ctcacggccg | 300 |
| actccgatgt | cgacgagttt | ctggacaatt | tctcatgctg | gcgtgaagca | gagtgacctt | 360 |
| cccagaaagg | agacggagca | gccgcctgcg | ccgggggagc | atggaggaga | gcgtgagagg | 420 |
| ctacgactgg | tcccgcgcg | acgcccggcg | cagcccagac | cagggccggc | agcaggcgga | 480 |
| gcgagggaac | gtgctgcggg | gcttctgcgc | caactccagc | ctggccttcc | ccaccaaggga | 540 |
| gcgcgcattc | gacgacatcc | ccaactcgga | gctgagccac | ctgatcgtgg | acgaccggca | 600 |
| cggggccatc | tactgctacg | tgcccaaggt | ggcctgcacc | aactggaagc | gcgtgatgat | 660 |
| cgtgctgagc | ggaagcctgc | tgcaccgagg | tgcgccctac | cgcgaccgcg | tgcgcatccc | 720 |
| gcgcgagcac | gtgcacaacg | ccagcgcgca | cctgaccttc | aacaagttct | ggcgccgcta | 780 |
| cgggaagctc | tcccgcacac | tcatgaaggt | caagctcaag | aagtacacca | agttcctctt | 840 |
| cgtgcgcgac | cccttcgtgc | gcctgatctc | cgcttccgcg | agcaagtctg | agctggagaa | 900 |
| cgaggagttc | taccgcaagt | tcgcccgtgc | catgctgcgg | gtgtacgcca | accacaccag | 960 |
| cctgcccggc | tcggcgcgcg | aggccttcgg | cgttggcctc | aagggtgcct | tcgccaactt | 1020 |
| catccagtag | ctgctggacc | cgcacacgga | gaagctggcg | cccttcaacg | agcactggcg | 1080 |
| gcagggtgtac | cgctctgtcc | acccgtgcca | gatcgactac | gattcctggg | gaagctggag | 1140 |
| actctggacg | aggacgccc | gcagctgctg | cagctactcc | aggtggaccg | gcagtcgcgt | 1200 |
| tccccccgag | ctaccggaac | aggaccgcca | gcagctggga | ggaggactgg | ttcgccaaga | 1260 |
| tccccctggc | ctggaggcag | cagctgtata | aactctacga | ggccgacttt | gttctcttcg | 1320 |
| gctaccccaa | gcccgaacac | ctcctccgag | actgaaagct | ttcgcggtgc | ttttcttcgc | 1380 |
| gtgcctggaa | cctgacgcac | gcgcactcca | gtttttttat | gacctacgat | tttgcaatct | 1440 |
| gggcttcttg | ttcactccac | tgctctatc | cattgagtag | tgtatcgata | ttgtttttta | 1500 |
| agattaatat | atttcaggta | tttaatacga | aaaaaaaaaa | aaaaaaa | | 1547 |

<210> 632

<211> 1380

<212> DNA

<213> Homo sapiens

<400> 632

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|------------|------------|------------|------------|-------------|------------|-----|
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| ggggccgccc | agggcgccgc | gcacacggcc | ttgggggttc | tgcgggcctt | cgggtgcgcg | 120 |
| tctgcctct | agccatgggg | tccgcagcgt | tgagatccct | gggcctggtg | ctgtgcctgg | 180 |
| tgggtctggg | gggtctgac | ctggcggtgc | ggctgcccac | gtggcagggtg | accgccttcc | 240 |
| tggaccacaa | catcgtgacg | gcgcagacca | cctggaaggg | gctgtggatg | tcgtgcgtgg | 300 |
| tgcagagcac | gggcacatgc | agtgcacagt | gtacgactcg | gtgctggctc | tgagcaccga | 360 |
| ggtgcaggcg | gcgcgggccc | tcaccgtgag | cgccgtgctg | ctggcgttcg | ttgcgctctt | 420 |
| cgtgaccctg | gcgggcgccc | agtgcaccac | ctgcgtggcc | ccgggcccgg | ccaaggcgcg | 480 |
| tgtggccctc | acgggaggcg | tgctctacct | gttttgcggg | ctgctggcgc | tcgtgccact | 540 |
| ctgctggttc | gccaacattg | tcgtccgcga | gttttacgac | ccgtctgtgc | ccgtgtcgca | 600 |
| gaagtacgag | ctgggcgcac | gctgtacatc | ggctgggcgg | ccaccgcgct | gctcatggta | 660 |

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ggcggctgcc tcttggtctg cggcgccctgg gtctgcaccg gccgtcccga cctcagcttc 720
cccgtgaagt actcagcgcc gcggcgggccc acggccaccg gcgactacga caagaagaac 780
tacgtctgag ggcgctgggc acggccgggc ccctcctgcc agccacgcct gcgagggcgtt 840
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ctcctcggaa cgtccggctc tgcgccccga cggggtcctt ggatccgctc ctgcctgcgc 960
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ttactccatc ggcagggccc gagcccaggg accagtgact tggcctggac ctcccggtct 1260
cactccagca tctccccagg caaggcttgt gggcaccgga gcttgagaga gggcgggagt 1320
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<210> 633

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (25)..(25)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (74)..(74)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (76)..(76)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (486)..(486)

<223> n equals a,t,g, or c

<400> 633

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cctctggtga cgggtggagca aaggaaataga tggatgaatgt ctcataccca cttcggatcc 180
agaacaggcc taggagagac tcaggtggga tctgctgctg aggaaaggag ttggggctga 240
agttggagga agagggcagc tctaaaccac ctattcctgg ctctaggcct ctcaggccag 300
acagccccca cccgtttctg cagatgcccg catcatggtc ctgaggggat gggggctggc 360
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acgtagtac cactcccttc taccgtcaga ratectgctt cccctgccc cctgccccty 480
ctcgntgtc cttcataacc ccccaccac tcccacctg ccatctcctg tgcttgtgctg 540
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610

<210> 634

<211> 659

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (616)..(616)

<223> n equals a,t,g, or c

<220>
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 <222> (620)..(620)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (631)..(631)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (644)..(644)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (649)..(649)
 <223> n equals a,t,g, or c

<400> 634
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 agcatgacat atacagtatc atgttttccc taagagaaat tactttacat tgactttaat 120
 gacttgccct cacagcttta gatttcactt gctaaagtat tttgattgtg catttaattt 180
 aaaaagaaac ctctaaacat ttttttagtt gcaaaaaatt ccaactttac cagggagaag 240
 aacattttgg ggtgttcaac tgtactggga atgttttatt tttaagctgg ttagtgaata 300
 catgggtggt cattttatta cctcatatac ttcatatgtt ttaaataata atacatttaa 360
 aaatatgctt tcttttattc agatttctga tgctagagga atatgttcag ttagtttact 420
 tgtcctgaaa tttaaacagt aaccatttaa attacgtgag ctgtaaagag attggcattt 480
 ttctgtgagt tgttccagac actaggccca gtgctgttaa agatgagccc cgcattctct 540
 ccaaatgaca ccaggcccat cattgtgttc ctaggctcaa gctcttctcc gctggcatga 600
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<210> 635
 <211> 189
 <212> DNA
 <213> Homo sapiens

<400> 635
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 tatagaatct gggtagtggg tgtatgggtg ttcactgtat aattctttca acaatctcct 180
 atgtttgaa 189

<210> 636
 <211> 637
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (358)..(358)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (523)..(523)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

<222> (552)..(552)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (589)..(589)
 <223> n equals a,t,g, or c

<400> 636
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 gtaagattgt atatcttcca gtgtcacctg tatatcccct aaactcctca cctatatcac 180
 aaaaacctgc caaggcagaa tacattccct tgggaaaagga gctttggcgg gcaagcaggc 240
 atcgggtccc atctgacacc agcgtgatcg ccacaggagc catctaggaa aggggaatgg 300
 aaactgagat gctggcactt tgggcccctgc caatgagcta aagcagtgtg taattaanga 360
 attgcacagg cttccttccc caggacaaag cagcgcacag tcttcttgga ttactgtcct 420
 cttacagcaa taattacctg tggataatag attatattat tgggaaggga cacacgcttg 480
 ctgccagcca cgtcttcttg gtgggctgcc acttctgctg canaactgat gagcatcatg 540
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<210> 637
 <211> 1830
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (67)..(67)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (97)..(97)
 <223> n equals a,t,g, or c

<220>
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 <222> (211)..(211)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1830)..(1830)
 <223> n equals a,t,g, or c

<400> 637
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 ttgcagaatg aagaagagtc tggagaacct gaacaggctg cagggtgatgc tcctccacct 180
 tacagcagca tttctgcaga gagcgacat nattttgact acaaggatga gtctgggttt 240
 ccaaagcccc catcttaca tgtagctaca acactgcccc gttatgatga agcggagagg 300
 accaaggctg aagctactat ccctttggtt cctgggagag atgaggattt tgtgggtcgg 360
 gatgattttg atgatgctga ccagctgagg ataggaaatg atgggatttt catgttaact 420
 tttttcatgg cattcctctt taactggatt gggtttttcc tgtctttttg cctgaccact 480
 tcagctgcag gaaggatatg ggccatttca ggatttggtc tctctctaata taaatggatc 540

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ctgattgtca ggttttccac ctatttccct ggatattttg atggtcagta ctggctctgg 600
tgggtgttcc ttgttttagg ctttctcctg tttctcagag gatttatcaa ttatgcaaaa 660
gttcggaaga tgccagaaac tttctcaaat ctccccagga ccagagttct ctttatttat 720
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gtgctttctg cccaagtggg aattcatctt ggtttgctat gttaaaaactg taaatacaac 1740
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aaaaaaaaaa aancccgggg gggggcccn 1830

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<210> 638

<211> 1025

<212> DNA

<213> Homo sapiens

<400> 638

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cccaggcctt cctccctctc ccatcagcag ccctgtaaca agtgccttgt gagaaaagct 180
ggagaagtga gggcagccag gttattctct ggaggttggg ggatgaaggg gtaccctagg 240
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aacaagtggc tttccttgcc tacttttagt acccagcaga gccactggag ctggctagt 480
cagcccagcc atggtgcatg actcttccat aagggatcct cacccttcca ctttcatgca 540
agaaggccca gttgccacag attatacaac cattacccaa accactctga cagtctctc 600
cagttccagc aatgcctaga gacatgctcc ctgcccctc cacagtgtg ctccccacac 660
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gcccctgcct agcagtctcc cagctcccaa cagcctgggg aagctctgca cagagtgacc 900
tgagaccagg tacaggaaac ctgtagctca atcagtgtct ctttaactgc ataagcaata 960
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<210> 639

<211> 2454

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2317)..(2317)

<223> n equals a,t,g, or c

<400> 639

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agcctacctg gacgtagaca ttactctgtc ctcaagaagct ttccataatt acatgaatgc 120

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| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| tgccatggtg | cacatcaaca | gggccctgaa | actcattatt | cgtctctttc | tggtagaaga | 180 |
| tctggttgac | tccttgaagc | tggctgtctt | catgtggctg | atgacctatg | ttggtgctgt | 240 |
| ttttaacgga | atcacccctc | taattcttgc | tgaactgctc | atcttcagtg | tcccgattgt | 300 |
| ctatgagaag | tacaagacc | agattgatca | ctatgttggc | atcgcccag | atcagaccaa | 360 |
| gtcaattggt | gaaaagatcc | aagcaaaact | ccctggaatc | gccaaaaaaa | aggcagaata | 420 |
| agtacatgga | aaccagaaat | gcaacagtta | ctaaaacacc | atttaatagt | tataacgtcg | 480 |
| ttacttgtac | tatgaaggaa | aatactcagt | gtcagcttga | gcctgcattc | caagcttttt | 540 |
| ttttaatttg | gtgttttctc | ccatcctttc | cccttaaccc | tcagtatcaa | gcacaaaaat | 600 |
| tgatggactg | ataaaagaac | tatcttagaa | ctcagaagaa | gaaagaatca | aattcatagg | 660 |
| ataagtcaat | accttaatgg | tggtagagcc | tttacctgta | gcttgaaagg | ggaaagattg | 720 |
| gaggtaagag | agaaaatgaa | agaacacctc | tgggtccttc | tgtccagttt | tcagcactag | 780 |
| tcttactcag | ctatccatta | tagttttgcc | cttaagaagt | catgattaac | ttatgaaaaa | 840 |
| attatttggg | gacaggagtg | tgataccttc | cttgggtttt | ttttgcagcc | ctcaaactct | 900 |
| atcttcctgc | cccacaatgt | gagcagctac | ccctgatact | ccttttcttt | aatgatttaa | 960 |
| ctatcaactt | gataaataac | ttatagggtg | tagtgataat | tcctgattcc | aagaatgcca | 1020 |
| tctgataaaa | aagaatagaa | atggaaagtg | ggactgagag | ggagtccagc | ggcatgctgc | 1080 |
| ggtggcggtc | actccctctg | ccactatccc | cagggaagga | aaggctccgc | catttgggaa | 1140 |
| agtggtttct | acgtcactgg | acaccggttc | tgagcattag | tttgagaact | cgttcccgaa | 1200 |
| tgtgctttcc | tcctctctcc | ctgccacctc | caagtttaat | aaataagggt | gtacttttct | 1260 |
| tactataaaa | taaatgtctg | taactgctgt | gcactgctgt | aaacttggtt | gagaaaaaaa | 1320 |
| taacctgcat | gtgggctcct | cagttattga | gtttttgtga | tcctatctca | gtctgggggg | 1380 |
| gaacattctc | aagaggtgaa | atacagaaag | cctttttttc | ttgatctttt | cccagatttc | 1440 |
| aaatctccga | ttccatttg | ggggcaagtt | tttttcttca | ccttcaatat | gagaattcag | 1500 |
| cgaacttgaa | agaaaaatca | tctgtgagtt | ccttcagggt | ctcactcata | gtcatgatcc | 1560 |
| ttcagaggga | atatgcactg | gcgagtttaa | agtaagggtc | atgatatattg | atggtcccaa | 1620 |
| agtacggcag | ctgcaaaaag | tagtggaagg | aaattgtcta | cgtgtcttgg | aaaaattagt | 1680 |
| taggaatttg | gatgggtaaa | aggtagccct | gccttactcc | atcttatttt | cttagcccc | 1740 |
| tttgagtgtt | ttaactgggt | tcatgtccta | gtaggaaagt | cattctccat | cctcatcctc | 1800 |
| tgccctccca | ggaagtcagt | gattgtcttt | ttgggcttcc | cctccaaagg | accttctgca | 1860 |
| gtggaagtgc | cacatccagt | tcttttcttt | tgttgctgct | gtgttttagat | aattgaagag | 1920 |
| atctttgtgc | cacacaggat | tttttttttt | tttaagaaaa | acctatagat | gaaaaattac | 1980 |
| taatgaaact | gtgtgtacgt | gtctgtgcgt | gcaacataaa | aatacagtag | cacctaagga | 2040 |
| gcttgaatct | tggttcctgt | aaaatttcaa | attgatgtgg | tattaataaa | aaaaaaaaaa | 2100 |
| acacaaaaaa | aaaaaaaaaa | aggggcgccg | ctctagagga | tccaagctta | cgtacgcgtg | 2160 |
| catgcgacgt | catagctctt | ctatagtgtc | acctaaattc | aattcactgg | ccgtcgtttt | 2220 |
| acaacgtcgt | gactgggaaa | accctggcgt | taccaactt | aatcgcttgg | cagcacatcc | 2280 |
| ccctttcgcc | agctggcgta | atagcgaaag | ggcccgnacc | gatcgscctt | cccaacagtt | 2340 |
| gcgcagcctg | aatggcraat | gggacgcgcc | ctgtagcggc | gcattaagcg | cggcggtgtg | 2400 |
| ggtggttacc | cgcagcgtga | ccgttacact | tgccagtggc | cctagcggcc | cgct | 2454 |

<210> 640

<211> 1775

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (820)..(820)

<223> n equals a,t,g, or c

<400> 640

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| gcggcgcggg | tgggggttgt | gcgttttacg | caggctgtgg | cagcgacgcg | gtccccagcc | 60 |
| tgggtaaaaga | tggcccatg | gccccgaag | ggcctagtc | cagctgtgct | ctggggcctc | 120 |
| agcctcttcc | tcaacctccc | aggacctatc | tggctccagc | cctctccacc | tccccagtct | 180 |
| tctccccgcg | ctcagcccca | tccgtgtcat | actgcccggg | gactgggtga | cagctttaac | 240 |
| aagggcctgg | agagaacccat | ccgggacaac | tttgagggtg | gaaacactgc | ctgggaggaa | 300 |
| gagaatttgt | ccaaatacaa | agacagttag | acccgcctgg | tagagggtgct | ggagggtgtg | 360 |
| tgcagcaagt | cagacttcca | gtgccaccgc | ctgctggagc | tgagttagga | gctggtggag | 420 |
| agctggtggg | ttcacaagca | gcaggaggcc | ccggacctct | tccagtggct | gtgctcagat | 480 |
| tcctgaagc | tctgtgccc | cgcaggcacc | ttcgggccct | cctgccttcc | ctgtcctggg | 540 |
| ggaacagaga | ggccctgcgg | tggctacggg | cagtgtgaag | gagaaggggac | acgagggggc | 600 |

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| agcgggcact | gtgactgcca | agccggctac | gggggtgagg | cctgtggcca | gtgtggcctt | 660 |
| ggctactttg | aggcagaacg | caacgccagc | catctggtat | gttcggcttg | ttttggcccc | 720 |
| tggtcccgat | gctcaggacc | tgaggaatca | aactgtttgc | aatgcaagaa | gggctgggcc | 780 |
| ctgcatcacc | tcaagtgtgt | agactgtgcc | aaggcctgcn | taggctgcat | gggggcaggg | 840 |
| ccaggctcgt | gtaagaagtg | tagccctggc | tatcagcagg | tgggctccaa | gtgtctcgat | 900 |
| gtggatgagt | gtgagacaga | ggtgtgtccg | ggagagaaca | agcagtgtga | aaacaccgag | 960 |
| ggcggttatc | gctgcatctg | tgccgagggc | tacaagcaga | tggaaggcat | ctgtgtgaag | 1020 |
| gagcagatcc | cagagtcagc | aggcttcttc | tcagagatga | cagaagacga | gttgggtggtg | 1080 |
| ctgcagcaga | tggtcttttg | catcatcatc | tgtgcaactg | ccacgctggc | tgctaagggc | 1140 |
| gacttgggtg | tcaccgccat | cttcattggg | gctgtggcgg | ccatgactgg | ctactgggtg | 1200 |
| tcagagcgca | gtgaccgtgt | gctggagggc | ttcatcaagg | gcagataatc | gcggccacca | 1260 |
| cctgtaggac | ctcctcccac | ccacgctgcc | cccagagctt | gggctgccct | cctgtcggac | 1320 |
| actcaggaca | gcttgggtta | tttttgagag | tggggtaagc | acccctacct | gccttacaga | 1380 |
| gcagcccagg | taccaggcc | cgggcagaca | aggcccctgg | ggtaaaaagt | agccctgaag | 1440 |
| gtggatacca | ttagctcttc | acctggcggg | gactggcagg | cttcacaatg | tgtgaatttc | 1500 |
| aaaagttttt | ccttaatggg | ggctgctaga | gctttggccc | ctgcttagga | ttaggtggtc | 1560 |
| ctcacagggg | tggggccatc | acagctccct | cctgccagct | gcattgctgc | agttcctgtt | 1620 |
| ctgtgttcac | catatcccca | caccccatgt | ccacttattt | attcatctca | ggaaataaag | 1680 |
| aaaggtcttg | gaaagttaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaactcg | aggggggggc | 1740 |
| cgtaccaaat | cgcctatga | tgtagtctga | ttaca | | | 1775 |

<210> 641

<211> 1379

<212> DNA

<213> Homo sapiens

<400> 641

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|------|
| gcggcgccgg | tgggggttgt | gcgttttacg | caggctgtgg | cagcgacgcg | gtccccagcc | 60 |
| tggtgaaaga | tggtcccatg | gccccgaag | gcctagtccc | agctgtgctc | tggtggcctca | 120 |
| gcctcttctt | caacctccca | ggacctatct | ggctccagcc | ctctccacct | ccccagctct | 180 |
| ctcccccgcc | tcagcccat | ccgtgtcata | cctgccgggg | actggttgac | agctttaaca | 240 |
| agggcctgga | gagaaccatc | cgggacaact | ttggaggtgg | aaacactgcc | tggtgaggaag | 300 |
| agaatttgtc | caaatacaaa | gacagtgaga | cccgcctggt | agaggtgctg | gaggggtgtg | 360 |
| gcagcaagtc | agacttcgag | tgccaccgcc | tgctggagct | gagtgaggag | ctggtggaga | 420 |
| gctggtgtgt | tcacaagcag | caggaggccc | cggacctctt | ccagtggctg | tgctcagatt | 480 |
| ccctgaagct | ctgctgcccc | gcaggcacct | tcgggccctc | ctgccttccc | tgctcctggg | 540 |
| gaacagagag | gccctgcggg | ggctacgggc | agtgtgaagg | agaagggaca | cgagggggca | 600 |
| gcgggcaact | tgactgccaa | gccggctacg | gggggtgagg | ctgtggccag | tgtggccttg | 660 |
| gctactttga | ggcagaacgc | aacgccagcc | atctggtatg | ttcggttgtt | tttggccctt | 720 |
| gtgcccagat | ctcaggacct | gaggaatcaa | actgtttgca | atgcaagaag | ggctgggccc | 780 |
| tgcatcacct | caagtgtgta | gacattgatg | agctgtggac | agagggagcc | aactgtggag | 840 |
| ctgaccaatt | ctgctggaac | actgagggct | cctatgagtg | ccgagactgt | gccaaggcct | 900 |
| gcctaggctg | catgggggca | gggccaggtc | gctgtaagaa | gtgtagccct | ggctatcagc | 960 |
| aggtgggctc | caagtgtctc | gatgtggatg | agtgtgagac | agaggtgtgt | ccgggagaga | 1020 |
| acaagcagtg | tgaaaacacc | gaggggcggt | atcgctgcat | ctgtgccgag | ggctacaagc | 1080 |
| agatggaagg | catctgtgtg | aaggagcaga | tcccagggtg | attccccatc | ttaactgatt | 1140 |
| taaccctga | aacaaccgca | cgctggaagt | tggtttctca | tccccactct | acatatgtaa | 1200 |
| aaatgaagat | gcagagagat | gaagctactt | tcccagggtc | atatggcaag | caagtgcgaa | 1260 |
| agctggggtc | ccaatccaga | cagtctgacc | gtggaacgag | actcatacac | gtaataaatg | 1320 |
| ctctgcccc | aacttgtcca | ccacaaaaaa | aaaaaaaaaa | aaaaaaaaaa | ggcgccgc | 1379 |

<210> 642

<211> 1508

<212> DNA

<213> Homo sapiens

<400> 642

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| ggcacagaga | tagagcggca | acctcggaag | tgcgacggg | tggtccctata | tagatgttga | 60 |
| ggtgctggag | ccgtgggctt | ttgttggggc | tggtctgtag | cgcagcagcg | gtaatggcag | 120 |
| caggccttat | gggtgtgtgg | ggtccccg | ctggctttcg | ccttttcata | ccggaggagc | 180 |
| tgtctcgcta | ccgcggcgcc | ccaggggacc | cgggcctgta | cttggcggtg | ctcgcccgctg | 240 |

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|------|
| tctacgatgt | gtcctccggc | cggagcacta | cgagcctggg | tcccactata | gcggcttcgc | 300 |
| aggccgagac | gcatccagag | ctttcgtgac | cggggactgt | tctgaagcag | gcctcgtgga | 360 |
| tgacgtatcc | gacctgtcag | ccgctgagat | gctgacactt | cacaattggc | tttcatttcta | 420 |
| tgagaagaat | tatgtgtgtg | ttgggagggg | gacaggacgg | ttctacggag | aggatgggct | 480 |
| gcccaccccg | gacttgaccc | aggtagaagc | tgcgatcacc | agaggcttgg | aggccaacaa | 540 |
| actacagctg | caagagaagc | agacattccc | gccgtgcaac | gaggagtggg | gctcagccag | 600 |
| gggagcggg | ctctgggtgct | cccagaagag | tggaggtgtg | agcagagact | ggattggcgt | 660 |
| ccccaggaag | ctgtataagc | caggtgctaa | ggagccccgc | tgcgtgtgtg | tgagaaccac | 720 |
| cggcccccct | agtggccaga | tgccggacaa | ccctccacac | agaaatcgtg | gggacctgga | 780 |
| ccacccaaac | ttggcagagt | acacaggctg | cccaccgcta | gccatcacat | gctcctttcc | 840 |
| actctaagcc | gtagcctctt | ctgttaataa | cacacagaga | gctctgccaa | gcacctgagt | 900 |
| aggcccttga | cacttgtgtg | ccctgggatg | cctcctggcg | cgaatcagga | gggtctggaa | 960 |
| ggactctggc | tatattctgc | aaatgtggct | catgcccctt | accgtggctc | ggcgttgtgg | 1020 |
| tgcttgaggg | acagccggcc | acctgcccag | tactggtcag | cttttcaaca | ctattccctt | 1080 |
| tgacctactg | gccatcttcc | tcacagccct | cagatatcaa | cgggcacaaa | taagaccaac | 1140 |
| tcaatttcca | cttgaattta | caacccaaaag | cctgctgagt | tgattacagc | tgggccaata | 1200 |
| cagtacgagg | caataacaaa | ttagtgtggg | ttgattcttg | aattggaaaa | gcttttgctt | 1260 |
| gtatggatac | agcaaatcca | gatgtctctg | aacaaagcaa | caatttaaag | caacgacatt | 1320 |
| ttctgtcctt | taagcactta | aaatcagggtg | tgggtgtgtt | tcaaaggcag | aagtctgcat | 1380 |
| tttagcaaaa | aggtggcctt | ccagctctaa | caaggtaact | ggtagcatg | acattaaagc | 1440 |
| ttgggcaagg | cttcaaactt | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1500 |
| aactcgag | | | | | | 1508 |

<210> 643

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1362)..(1362)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1369)..(1369)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1397)..(1397)

<223> n equals a,t,g, or c

<400> 643

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|------|
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| aggaagctct | gtgaagggtg | tgctgatgac | ccagattcct | ccatggctct | cctgtgtctc | 120 |
| ctgttggtgc | ccctcctgct | cagtctcttt | gtactggggc | tatttctttg | gtttctgaag | 180 |
| agagagagac | aagaagagta | cattgaagag | aagaagagag | tggacatttg | tcgggaaact | 240 |
| cctaacatat | gccccattc | tggagagaac | acagagtacg | acacaatccc | tcacactaat | 300 |
| agaacaatcc | taaaggaaga | tccagcaaat | acggtttact | ccactgtgga | aataccgaaa | 360 |
| aagatggaaa | atccccactc | actgctcacg | atgccagaca | caccaaggct | atttgcctat | 420 |
| gagaatgtta | tctagacagc | agtgcactcc | cctaagtctc | tgctcaaaaa | aaaaacaatt | 480 |
| ctcggcccaa | agaaaacaat | cagaagaatt | cactgatttg | actagaaaca | tcaaggaaga | 540 |
| atgaagaacg | ttgacttttt | tccaggataa | attatctctg | atgcttcttt | agatttaaga | 600 |
| gttcataatt | ccatccactg | ctgagaaatc | tcctcaaaac | cagaagggtt | aatcacttca | 660 |
| tcccataaat | gggatttgta | atgtcagcaa | accataaaaa | aagtgccttag | aagtattcct | 720 |
| ataaaaaatg | aaatgcaagg | tcacacatat | taatgacagc | ctgttgattt | aatgatggct | 780 |
| ccaggtcagt | gtctggagtt | tcattccatc | ccagggtctg | gatgtcagga | ttataccaag | 840 |
| agtcttgcta | ccaggagggc | aagaagacca | aaacagacag | acaagtccag | cagaagcaga | 900 |
| tgcacctgac | aaaaatggat | gtatttaattg | gctctataaa | ctatgtgccc | agcaytatgc | 960 |
| tgagcttaca | ctaattgggtc | agacatgctg | tctgcccctca | tgaaattggc | tccaaatgaw | 1020 |

```

tgaactactt tcatgagcag ttgtagcagg cctgaccaca gattcccaga gggccaggtg 1080
tggatccaca ggacttgaag gtcaaagtgc acaaagatga agaatacagg tagctgacca 1140
tgtttggcag atactataat ggagacacag aagtgtgcat ggcccaagga caaggacctc 1200
cagccaggct tcatttatgc acttgtctgc aaaagaaaag tctagggtttt aaggctgtgc 1260
cagaacccat cccaataaag agaccgagtc tgaagtcaca ttgtaaatct agtgtaggag 1320
acttgagtc aggcagtgag actggtgggg cacggggggc antgggtant gtaaaccctt 1380
taaagatggt taattcntca ttagtgtttt tt 1412

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<210> 644

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1300)..(1300)

<223> n equals a,t,g, or c

<400> 644

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gaaggcaagc ggtgattggt tgtagacggc gctttgtcat gggacctgtg cggttgggaa 120
tattgctttt cctttttttg gccgtgcacg aggcttgggc tgggatgttg aaggaggagg 180
acgatgacac agaacgcttg cccagcaa atgcgaagtgtg taagctgctg agcacagagc 240
tacaggcgga actgagtcgc accggtcgat ctcgagaggt gctggagctg gggcaggtgc 300
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gtcactgag atatgccaag ggtcagagtc agaccatggc aacactgaaa ggcctagtgc 480
agaagggggt gaagtggtat ctggggatcc ctctggagct ttgggatgag cccagcgtgg 540
aggtcacata cctcaagaag cagtgtgaga ccatgttgga rgargaggar gaagaggagg 600
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atctttgacc cttgcctttg agccccagg aggggaagg atcatggaga gccctctaaa 720
gcctgcactc tccctgctcc acagctttca ggggtgtgtt atgagtgact ccaccaagc 780
ttgtagctgt tctctcccat ctaacctcag gcaagatcct ggtgaaacag catgacatgg 840
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ccccaccaa aagtcagcag tggcactgga gctgtgggct ttggggaagt cacttagctc 1020
cttaaggtct gtttttagac ccttccaagg aagaggccag aacggacatt ctctgcgac 1080
tatatacatt gcctgtatcc aggaggctac acaccagcaa accgtgaagg agaatgggac 1140
actgggtcat ggcctggagt tgctgataat ttaggtggga tagatacttg gtctacttaa 1200
gctcaatgta acccagagcc caccatatag ttttatagg gctcaatttt ctatatcgct 1260
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<210> 645

<211> 729

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (702)..(702)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (710)..(710)

<223> n equals a,t,g, or c

<400> 645

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gctggccctc gccttcaagc tggacgaggt ggccgcccgt gcggtgctcc tgtgtggctg 60
ctgtcccggc ggcaatctct ccaatcttat gtccctgctg gttgacggcg acatgaacct 120
cagcatcatc atgaccatct cctccacgct tctggccctc gtcttgatgc ccctgtgcct 180

```

```

gtggatctac agctgggctt ggatcaacac ccctatcgtg cagttactac ccctagggac 240
cgtgaccctg actctctgca gcactctcat acctatcggg ttgggcgtct tcattcgcta 300
caaatacagc cgggtggctg actacattgt gaaggtttcc ctgtgggtctc tgctagtgc 360
tctgggtggtc cttttcataa tgaccggcac tatgttagga cctgaactgc tggcaagtat 420
ccctgcagct gtttatgtga tagcaatttt tatgcctttg gcaggctacg cttcagggtta 480
tggtttagct actctcttcc atcttccacc caactgcaag aggactgtat gtctggaaac 540
aggtagtcag aatgtgcagc tctgtacagc cattctaaaa ctggcctttc accgaattya 600
taggaagcat gkacatgktt cctttgctgk atgcactttt ycagtctgca raascgggga 660
tttttgkttt aatctataaa akgtatggaa rtgaaatgtt gnaccaagcn agaatccttt 720
tagattaaa 729

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<210> 646

<211> 1180

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (6)..(6)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (9)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (14)..(14)

<223> n equals a,t,g, or c

<400> 646

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gaagaggggg agagagttac aggttggaca tgatgcacac tatggggccc cagcgacgtg 120
tctggttgag ctcagggaat atggttctta gccagtttct tgggtatata cagtggcact 180
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acttccagaa ataaacgtta tataggaacc gtcaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1180

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<210> 647

<211> 941

<212> DNA

<213> Homo sapiens

<400> 647

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aggaccccca gtcgcgacat gtcgccctct ggtcgcctgt gtcttctcac catcgttggc 120

```



```

ctgattctcc ccaccagagg acagacgttg aaagatacca cgtccagttc ttcagcagac 180
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```

<210> 648

<211> 988

<212> DNA

<213> Homo sapiens

<400> 648

```

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tcaatgtcg cctctggtc gcctgtgtct tctcaccatc gttggcctga ttctccccac 180
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cattcaggtc ccgacacgag cccagatgc agtctacaca gaactccagc ccacctctcc 300
aaccacaacc tggcctgctg atgaaacacc acaaccccag acccagaccc agcaactgga 360
aggaacggat gggcctctag tgacagatcc agagacacac aagagcacca aagcagctca 420
tcccactgat gacaccacga cgctctctga gagaccatcc ccaagcacag acgtccagac 480
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catcctcacc agtggcaagt gcaggcagct gtcccgggta tgccggaatc attgcaggtg 660
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gcccctgaag gctacctggc gccttggggg ctgtccctca agttatctcc tctgytaaga 900
caaaaagtaa agcactgtgg tctttgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaa aaaaaaaaaa aactcgag 988

```

<210> 649

<211> 1172

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (904)..(904)

<223> n equals a,t,g, or c

<400> 649

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ttgatccaag ccacctcag tcccactgca gttctcatcc tcggcccaaa agtcatcaaa 180
gaaaagctga cacaggagct gaaggaccac aacgccacca gcatcctgca gcagctgccg 240
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acaccgtcct gaagcacrtc atctggctga aggtcatcac agytaacatc ctccagctgc 360
aggtgaagcc ctcgccaat gamcaggagc tgctagtcaa gatccccctg gacatggttg 420
ctggattcaa cagccccctg gtcaagacca tcgtggagtt ccacatgacg actgaggccc 480
aagccaccat ccgcatggac accagtgcaa gtggcccccac ccgctgggc ctcagtgact 540
gtgccaccag ccatgggagc ctgcgcaccc aactgctgca taagctctcc ttcctggtga 600
acgccttagc taagcaggtc atgaacctcc tagtgccatc catgccaaag tggcccaact 660

```

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|------|
| gacgtgctg | gaagtgtttc | cctccagtga | agccctccgc | cctttgttca | ccctgggcat | 720 |
| cgaagccagc | tcggaagctc | agttttacac | caaaggtgac | caacttatac | tcaacttgaa | 780 |
| taacatcagc | tctgatcgga | tccagctgat | gaactctggg | attggctggg | tccaacctga | 840 |
| tggttctgaaa | aacatcatca | ctgaratcat | ccactccatc | ctgctgccga | accagaatgg | 900 |
| caanttaaga | ctgggggtccc | agtgtcattg | gtgaaggcct | tgggattcga | ggcagctgag | 960 |
| tcctcactga | ccaaggatgc | ccttgtgctt | actccagcct | ccttgtggaa | acccasctct | 1020 |
| cctgtctccc | agtgaagact | tggatggcag | ccatcagggg | argctgggtc | ccagctggga | 1080 |
| rtatgggtgt | gagctctata | gaccatccct | ctctgcaatc | aataaacact | tgctgtgaa | 1140 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aa | | | 1172 |

<210> 650

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (283)..(283)

<223> n equals a,t,g, or c

<400> 650

| | | | | | | |
|------------|-------------|------------|------------|------------|-------------|-----|
| ggggacgtgc | acggggccgc | cctcctggcc | ctgaagctgc | gccggcctcc | ctgagcgttt | 60 |
| cgctgcggag | ggaagtcac | tctcggggag | agatgctgat | gccgggccac | ttcctgctgc | 120 |
| tcctgctgct | gctcctgggg | ggccccagga | caggcctccc | ccacaagttc | tacaaagcca | 180 |
| agcccatctt | cagctgcctc | aacaccgccc | tgtctgaggc | tgagaagggc | cagtgggagg | 240 |
| atgcattccc | gctgagcaag | aggagcttcc | actacctgcg | canaagsacg | cctcttcggg | 300 |
| agaggaggag | gaggggcaaag | agaaaaagac | tttccccatc | tctggggcca | gggggtggarc | 360 |
| cagaggcacc | cggtacagat | acgtgtccca | agcacagccc | aggggaaagc | cacgccagga | 420 |
| cacggccaag | agtccccacc | gcaccaagtt | caccctgtcc | ctcgacgtcc | ccaccaacat | 480 |
| catgaacctc | ctcttcaaca | tcgccaaggc | caagaactgc | gtgccc | | 526 |

<210> 651

<211> 1566

<212> DNA

<213> Homo sapiens

<400> 651

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
| cgctgcccgc | gcccggcagc | tgtccaccga | tcccggccac | cgcccccggc | cacccccacc | 60 |
| ccgcgagccc | atggaggctc | cgggaccccg | cgcttgccgg | actgcgctct | gtggcggctg | 120 |
| ttgctgcctc | ctcctatgtg | cccagctggc | tgtggctggg | aaaggagctc | gaggctttgg | 180 |
| gagggggagcc | ctgatccgcc | tgaatatctg | gccggcggtc | caaggggcct | gcaaacagct | 240 |
| ggaggtctgt | gagcactgcg | tggagggaga | cagagcgcgc | aatctctcca | gctgcatgtg | 300 |
| ggagcagtg | cggccagagg | agccaggaca | ctgtgtggcc | caatctgagg | tggtcaagga | 360 |
| aggttgctcc | atctacaacc | gctcagaggc | atgtccagct | gctcaccacc | accccaccta | 420 |
| tgaaccgaag | acagtcacaa | caggggagccc | cccagtcctc | gaggcccaca | gccctggatt | 480 |
| tgacggggcc | agctttatcg | gaggtgtcgt | gctgggtgtg | agcctacagg | cgggtggcttt | 540 |
| ctttgtgctg | cacttcctca | aggccaagga | cagcacctac | cagacgctgt | gagtacctgg | 600 |
| ccagcagcaa | gtacctgagt | cccagctcac | ctcctgggtc | ctgccccacc | gttccccctc | 660 |
| agtacccagg | gtgctgtctt | ctccatgggc | aagccctcag | gacggtgaca | gcgtgtcca | 720 |
| tgtgagccac | accccttttg | tctcctccag | ttgggtgtgt | tcctttgtca | gatgttggct | 780 |
| gggaccagga | ctcagcctgg | gccagtctag | gagcccagct | gagccctcct | gtgtcttttc | 840 |
| ccttcatgct | gccagcaggg | aagagaacca | gtaggtgcca | gcccaggcaa | gcctgtggcc | 900 |
| cgcttttctg | tggctgtggg | caggagctgg | gcctgtgtgc | tagttgggtt | ttgctctgag | 960 |
| aaggggagct | gtgcctgagg | ccctctgtgt | gccgtgtgtg | ctgtggggcg | ggtcgccaca | 1020 |
| gcctgtgtta | aagtgtttgc | tcttctctct | ctgcctcctc | tcgaggcagg | gggtccttgg | 1080 |
| ctggctgagg | cagtgtcacc | ttcctgagtg | tcctcttttg | cctctgcaga | atctgacccc | 1140 |
| tttgggcctg | gactccatcc | tgaggggcaa | ggaggatgca | gaggggtggc | tctgggcacc | 1200 |
| cttgtgggta | agcggggggc | ggggggcgga | aaaactctgg | ccgccagttt | ttggctcctg | 1260 |
| cgggcaccaa | gcaggctcag | tgtctgatgc | ctgacatctc | ctcctgtcct | gggcctggaa | 1320 |
| cctgcagctg | agaaaaatccc | tcaaccacct | cgtctcctcc | atcgccctcg | ctgggcccc | 1380 |
| cagcctgaca | gtgggttgta | tgctgcctc | tttccaccaa | ctggcctggg | cactgcccc | 1440 |

```

aaataaagga actctgcact gcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaa 1566

```

<210> 652

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 652

```

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gccttgccga ctgcgctctg tggcggctgt tgcctgctcc tcctatgtgc ccagctggct 180
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tgtgtggccc aatctgaggt ggtcaaggaa ggttgctcca tctacaaccg ctcagaggca 420
tgtccagctg ctaccacca cccacacctat gaaccgaaga cagtcacaac agggagcccc 480
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tctagtggg tttgtctctg agaaggggag ctgtgctgag gccctctgtg tgccgtgtgt 1020
gctgtggggc gggctcgccac agcctgtgtt aaagtgtttg ctcttcc 1067

```

<210> 653

<211> 1021

<212> DNA

<213> Homo sapiens

<400> 653

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ctatggtgac cgaggacttg tgccgagcac cagacgggaa gaaaggggag gcaggaaagac 180
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a 1021

```

<210> 654

<211> 1086

<212> DNA

<213> Homo sapiens

<400> 654

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```

```

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aatgag 1086

```

<210> 655

<211> 1352

<212> DNA

<213> Homo sapiens

<400> 655

```

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ccagctgtgc ccgacaccat gtacctgccc ctggccacct cccgatgcc cgctgggagt 180
acccttggtg ctggatggct gtggtgctg cgggtatgt gcacggcgcc tgggggagcc 240
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```

<210> 656

<211> 1337

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1337)..(1337)

<223> n equals a,t,g, or c

<400> 656

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gcttcacagt ttcaccttca ggctcaaarc tggstctgca ggggacatga gaggcacacc 60

```

```

gaagacccac ctctggcct tctccctcct ctgcctcctc tcaaagggtgc gtaccagct 120
gtgcccagaca ccatgtacct gcccctggcc acctcccca tgcccgtgg gactaccct 180
ggtgctggat ggctgtggct gctgccgggt atgtgcacgg cggctggggg agccctgcga 240
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<210> 657

<211> 2092

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (637)..(637)

<223> n equals a,t,g, or c

<400> 657

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<210> 658

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (920)..(920)

<223> n equals a,t,g, or c

<400> 658

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acgtgaaaaa aaaaaaaaaa aaaaaaaaaac tcga

2494

<210> 659

<211> 1957

<212> DNA

<213> Homo sapiens

<400> 659

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| ctcagcttc | accctcagaa | gatggatccc | aagagacagc | acattcagct | cctgagcagc | 120 |
| ctgactgagt | gcctgacggg | ggacccccctc | agtgccagcg | tctggaggca | gctgtaccct | 180 |
| aagcacctgt | cacagtcag | ccttctgctg | gagcacttgc | tcagctcctg | ggagcagatt | 240 |
| cccaagaagg | tacagaagtc | tttgcaagaa | accattcagt | ccctcaagct | taccaaccag | 300 |
| gagctgctga | ggaagggtag | cagtaacaac | caggatgtcg | tcacctgtga | catggcctgc | 360 |
| aagggcctgt | tcagcaggt | tcagggctcct | cggctgccct | ggacgcggct | cctcctgttg | 420 |
| ctgctggtct | tcgctgtagg | cttcctgtgc | catgacctcc | ggtcacacag | ctccttccag | 480 |
| gcctccctta | ctggccggtt | gcttcgatca | tctggcttct | tacctgctag | ccaacaagcg | 540 |
| tgtgccaagc | tctactccta | cagtctgcaa | ggctacagct | ggctggggga | gacactgccg | 600 |
| ctctggggct | cccacctgct | caccgtgggt | cggcccagct | tgcagctggc | ctgggctcac | 660 |
| accaatgcc | cagtcagctt | ccttcttgcc | cactgtgcct | ctcaccttgc | gtggtttggt | 720 |
| gacagtctca | ccagtctctc | tcagaggcta | cagatccagc | tccccgattc | cgtgaatcag | 780 |
| ctactccgct | atctgagaga | gctgcccctg | cttttccacc | agaatgtgct | gctgccactg | 840 |
| tggcacctct | tgctgaggc | cctggcctgg | gcccaggagc | actgccatga | ggcatgcaga | 900 |
| ggtagagtga | cctgggactg | catgaagaca | cagctcagtg | aggctgtcca | ctggacctgg | 960 |
| ctttgcctac | aggacattac | agtggctttc | ttggactggg | cacttgccct | gatatcccag | 1020 |
| cagtagggcc | tgcttccctg | gccactgatt | tctgcatggg | tagaccatcc | aagactgcag | 1080 |
| cgggtagaag | gtggcagttc | ttcatgggag | tctttttaac | ttggtgcctg | agttctctcc | 1140 |
| taggcaagtg | gccagttgcc | tccacctcag | ttcttccatc | tttgggtggg | acagggccca | 1200 |
| gcagcatctc | agcctcctac | ccacaattcc | actgaacact | tttctggccc | tactgcacat | 1260 |
| ggcccccagc | ctccatcctt | gtgctggtag | cctctcacia | ctccgcctt | gccctctgac | 1320 |
| ttccacttcc | ttccatctca | tttctaaacc | ccaaacagct | catctctaaa | aagatagaac | 1380 |
| tcccagcagg | tggcttctgt | gttcttctga | caaagtattc | ctgcttctcc | agacttttagc | 1440 |
| agctcctgt | tcccattctt | gtcacagct | ctagccacag | cagaaggaaa | ggggcttcca | 1500 |
| gaagaatata | gcaccgcatt | gggaaacagc | agcctcacct | ccacctgaag | cctgggtgtg | 1560 |
| gctgtcagtg | gacatgggga | gctggatgga | aatgcctctc | acttcaaaat | gcccagcctg | 1620 |
| ccccaaatgc | ctctaagccc | ctccctgtcc | cctcccttgt | agtcctactt | cttccaactt | 1680 |
| tccattcccc | atcatgctgg | gggtcttggt | cacaaggctc | agcttctctc | cactgtccat | 1740 |
| ccctcctatc | atctgtagag | cagagcacag | gcagttgtgt | gccttggggc | cagggaaacc | 1800 |
| tccatcaacc | tgagacagga | ctcagtatat | ggttcttggg | tatgccctac | caggtggaat | 1860 |
| aaaggacaca | gatttgattt | ctaaaaaaa | aaaaaaaaa | aaaaaaaaa | aaaaaaaaa | 1920 |
| aaaaaaaaa | aaaaaaaaa | aaaaaaaaa | aaaaaaa | | | 1957 |

<210> 660

<211> 730

<212> DNA

<213> Homo sapiens

<400> 660

| | | | | | | |
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| gtgggaccat | cttcctgtgg | atcttctggc | ctagcttcaa | tgctgcactc | acagcgtg | 60 |
| gggctgggca | gcatcggacg | gccctcaaca | catactactc | cctggctgcc | agcacccttg | 120 |
| gcacctttgc | cttgtcagcc | ctttagggg | aagatgggag | gcttgacatg | gtccacatcc | 180 |
| aaaatgcagc | gctggctgga | ggggttgtgg | tggggacctc | aagtgaatg | atgctgacac | 240 |
| cccttggggc | tctggcagct | ggcttcttgg | ctgggactgt | ctccacgctg | gggtacaagt | 300 |
| tcttcacgcc | catccttgaa | tcaaaattca | aagtccaaga | cacatgtgga | gtccacaacc | 360 |
| tccatgggat | gccgggggtc | ctggggggcc | tctgggggt | ccttgtggct | ggacttgcca | 420 |
| cccatgaagc | ttacggagat | ggcctggaga | gtgtgtttcc | actcatagcc | gagggccagc | 480 |
| gcacgccacg | tcacaggcca | tcaccagct | cttcgggctg | tttgtcacac | tgatgtttgc | 540 |
| ctctgtgggc | gggggccttg | gaggcatcat | attggtctta | tgacctccta | gacctctgtg | 600 |
| ccctgtggca | tgggtggcam | cctcctccat | ggtggggggc | agagaagcct | cacagatcct | 660 |
| cccctaccac | caccagggct | cctgctgaag | ctaccctttc | tggactcccc | ccccagactc | 720 |
| ccagcactac | | | | | | 730 |

<210> 661
 <211> 550
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n equals a,t,g, or c

<400> 661
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 cctgcacatg ggtagaagag gccaaattga ggcacccaag tgatccactg gccccacgtc 420
 acacagttac agtgaagccc aagccaggcc tgggtgaggg tgataaacgc cactgtctct 480
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 tgtatgctat 550

<210> 662
 <211> 807
 <212> DNA
 <213> Homo sapiens

<400> 662
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 tatctcagac agtgaaagtg aaatggactg atttgactc ttggttcttt ggagccttgt 720
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 gtaaaatggt aaaaaaaaaa aaaaaaa 807

<210> 663
 <211> 946
 <212> DNA
 <213> Homo sapiens

<400> 663
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 gaaactatgg aaaccaattc ttgatatttt gaaccattca cgaagatagt ttgagtcagt 180
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 cttgatatttt ttgagtctga aattagcttt ccaggctggg gcagggaggg gagcacaggt 300
 gggatcagta ctgccccaa gcggtggagc tgtggtggtg gatcaatact gctgccgct 360
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 acaataatga tggtagtgaa gatgatgatg atgtgggtaa ttctggctac ctattgggt 480
 ccaagctccc caaattcgt tgcacaaagc actctacata cattctcttt agtcctgatc 540
 aaaccacctt tcagagtagg atttagtgtc ctatttttaa gatgaaggag ctcgggctca 600
 gagagagatc gtttagacac acacacaact ttggaatgaa acatttacag ccgggcgcgg 660

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tggcgcgtgc | ctgtagtccc | agctacttgg | gaggctgagg | ctggaggatc | gcttgagtcc | 720 |
| aggagttctg | ggctgtagtg | cgctatgccg | atcggtgtgc | cgactaagt | ttggcatcaa | 780 |
| tatggtgacc | tccccggagt | ggaggaccac | caggttgcc | aaggaggggt | gaaccggtcc | 840 |
| aggtcggaat | gaaacattta | caaaaattga | catttcctta | tgcatagata | tttactagg | 900 |
| tccttaaaac | ccacgtgaat | ctgtgattaa | aaaaaaaaaa | aaaaaa | | 946 |

<210> 664

<211> 1145

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (410)..(410)

<223> n equals a,t,g, or c

<400> 664

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| ggaaaaacgcg | gtgcttgctc | ctcccggagt | ggccttgcca | gggtgttga | gccctcggtc | 120 |
| tgccccgtcc | ggtctctggg | gccaaggctg | ggtttccctc | atgtatggca | agagctctac | 180 |
| tcgtgcggtg | cttcttctcc | ttggcataca | gctcacagct | ctttggccta | tagcagctgt | 240 |
| ggaaatttat | acctcccggg | tgctggaggc | tgtaaatggg | acagatgctc | ggttaaaatg | 300 |
| cactttctcc | agctttgccc | ctgtgggtga | tgctctaaca | gtgacctgga | attttctg | 360 |
| tctagacggg | ggacctgagc | agtttggtatt | ctactaccac | atagatcccn | ttccaaccca | 420 |
| tgagtggcg | gtttaaggac | cgggtgtctt | gggatgggaa | tcctgagcgg | tacgatgcct | 480 |
| ccatccttct | ctggaaactg | cagttcgacg | acaatgggac | atacacctgc | caggtgaaga | 540 |
| acccacctga | tggtgatggg | gtgatagggg | asatccggct | cagcgtcgtg | cacactgtac | 600 |
| gcttctctga | gatccacttc | ctggctctgg | ccattggctc | tgctgtgca | ctgatgatca | 660 |
| taatagtaat | tgtagtggtc | ctcttccagc | attaccggaa | aaagcgatgg | gccgaaagag | 720 |
| ctcataaagt | ggtggagata | aaatcaaaag | aagaggaaag | gctcaaccaa | gagaaaaagg | 780 |
| tctctgttta | tttagaagac | acagactaac | aatttttagat | ggtaaggttc | acaaatagggt | 840 |
| tgatttcttt | cttcagcttt | ctgacatgtc | cagcccatct | ctaatagagga | ctcccagatc | 900 |
| atcactttat | ggctgttarg | tgtttcccat | atgaaattag | aggagctggg | tcagggagac | 960 |
| aaaagtcttc | tattagtctt | atggatagct | cctccttgag | tgtattttgt | gcaaaagatt | 1020 |
| aagaagctgg | actctactgc | cattaaagct | gagagaatcc | taaggttatt | tgtggcttcg | 1080 |
| gggttatatt | tattactact | actactaata | aatattcaac | aagtaaataa | atctttttta | 1140 |
| aatca | | | | | | 1145 |

<210> 665

<211> 869

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (765)..(765)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (800)..(800)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (847)..(847)

<223> n equals a,t,g, or c

<400> 665

| | | | | | | |
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| gggcttcaga | ccaggatacc | ctggctcctc | tgcttggggc | cacccctgg | cccctgctgc | 120 |
| ccactttctc | ctaccagtac | cctgcccac | acccttacag | cccgcagcct | ccaccctacc | 180 |
| atgagctttc | atcttacacc | tatggtgggg | gcagtgccag | cagccagcat | agtgagggca | 240 |
| gccggagcag | tgggtcgaca | cggagtgatg | ggggggcagg | gcgcacgggg | aggcccagg | 300 |
| agcgggcccc | cgagtccaag | tccggcagtg | gcagtgagtc | tgagccctcc | agccgagggg | 360 |
| gcagccttcg | gcgggggtgg | gaagcaagt | ggactagcga | tgggggccct | cctccatcca | 420 |
| gaggctcaac | tgggggtgcc | cctaactctc | gagcccaccc | agggtcccat | ccctatggac | 480 |
| cgccccctgg | catggccctc | ccctacaacc | ccatgatggt | ggatcatgat | ccccacctc | 540 |
| cacctccagt | ccctccagca | gtgcagcctc | cgggggcccc | tccagtcaga | gacctgggct | 600 |
| ctgtgcccc | agaactgaca | gccagccgcc | aaagcttcca | catggccatg | ggcaatccca | 660 |
| gcgagtctct | tgtggatgtt | atgtagccca | ctgtggggcc | aggytggggc | gggcgctcct | 720 |
| ggtgtgtgac | tgggtgtcct | ggcgtcatg | tgcttgctct | tacantgcct | gggtcaagc | 780 |
| ctaccagctg | ctgcatacan | gagattgtgg | gccactgtga | ctcttcacca | agcatgcctg | 840 |
| gttcctnccc | cccttccctt | caaggggta | | | | 869 |

<210> 666

<211> 692

<212> DNA

<213> Homo sapiens

<400> 666

| | | | | | | |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| cccactttct | ctgaccagta | ccttgcccca | cacccctaca | gcccgcagcc | tccaccatac | 60 |
| catgagcttc | cacatgscca | tgggcaatcc | cagcgagttc | tttgtggatg | ttatgtagcc | 120 |
| cactgtgggg | ccaggctggg | ccgggcgctc | ctgggtgtgtg | actgggtgtc | ctggccgtca | 180 |
| tgtgcttgct | cttacagtgc | ctgggtcag | cctaccagct | gctgccatac | aggagattgt | 240 |
| ggccactgtg | actctcacca | gcagtgcctg | gttcctcccc | cttcctcag | gggtagacaa | 300 |
| gggacctttg | attattttta | gctttgtttt | tttataagcc | tttttggggg | ttaaaataga | 360 |
| gtttctttaca | tttttgggac | ttttttaata | ggcatttctc | cttttatatg | aagaattccc | 420 |
| atccattggg | ccccttctaa | ccccagaatg | tgacctctc | ctccagttac | ccacagccct | 480 |
| gccctttgca | gggttggggg | tggtcagcgg | tacccggggg | ttaggcattcc | tagacagcag | 540 |
| cctgagggaag | ctgggagatt | tgggccatgt | agctgccttt | gttactctat | ttatttttagt | 600 |
| cacttgtata | aaacacaaa | taaagcaata | gaggcaact | caaaaaaaaa | aaaaaaaaaa | 660 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aa | | | 692 |

<210> 667

<211> 3113

<212> DNA

<213> Homo sapiens

<400> 667

| | | | | | | |
|-------------|------------|-------------|------------|------------|-------------|------|
| gttattaatg | accgctgagc | aggcagcacc | atgtcagtg | gacaactgaa | tcgggtgaac | 60 |
| gatgcaccac | taaccaccat | ggaacaagg | aaaaataaag | ccagctcaca | ggatctctct | 120 |
| tacttggtg | gagagcctca | gcctgccgac | tgagaaaaag | agttccagga | aaaagaagga | 180 |
| atcccggctg | cagcctcctg | ccttccttta | tatttttaaa | tagagagata | agattgcgtg | 240 |
| catgtgtgca | tatctatagt | atatattttg | tacactttgt | tacacagaca | cacaaatgca | 300 |
| cctattttata | ccgggcaaga | acacaacccat | gtgattatct | caaccaagga | actgagggaat | 360 |
| ccagcacgca | aggacatcgg | agggtgggcta | gcactgaaac | tgcttttcaa | gcatcatgct | 420 |
| gctatttcctg | caaatactga | agaagcatgg | gatttaata | ttttacttct | aaataaatga | 480 |
| attactcaat | ctcctatgac | catctataca | tactccacct | tcaaaaagta | catcaatatt | 540 |
| atatcattaa | ggaaatagta | accttctctt | ctccaatatg | catgacattt | ttggacaatg | 600 |
| caattgtggc | actggcactt | atttcagtga | agaaaaactt | tgtggttcta | tggcattcat | 660 |
| catttgacaa | atgcaagcat | cttccttatc | aatcagctcc | tattgaactt | actagcactg | 720 |
| actgtggaat | ccttaagggc | ccattacatt | tctgaagaag | aaagctaaga | tgaaggacat | 780 |
| gccactccga | attcatgtgc | tacttggcct | agctatcact | acactagtac | aagctgtaga | 840 |
| taaaaaagtg | gattgtccac | ggttatgtac | gtgtgaaatc | aggccttggt | ttacacccag | 900 |
| atccattttat | atggaagcat | ctacagtggg | ttgtaatgat | ttaggtcttt | taactttccc | 960 |
| agccagattg | ccagctaaca | cacagattct | tctcctacag | actaacaata | ttgcaaaaat | 1020 |

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|------|
| tgaatactcc | acagactttc | cagtaaacct | tactggcctg | gatttatctc | aaaacaattt | 1080 |
| atcttcagtc | accaatatta | atgtaaaaaa | gatgcctcag | ctcctttctg | tgtacctaga | 1140 |
| ggaaaaacaaa | cttactgaac | tgcttgaaaa | atgtctgtcc | gaactgagca | acttacaaga | 1200 |
| actctatatt | aatcacaaact | tgctttctac | aatttcacct | ggagccttta | ttggcctaca | 1260 |
| taatcttctt | cgacttcac | tcaattcaaa | tagattgcag | atgatcaaca | gtaagtgggt | 1320 |
| tgatgctctt | ccaaatctag | agattctgat | gattggggaa | aatccaatta | tcagaatcaa | 1380 |
| agacatgaac | tttaagcctc | ttatcaatct | tcgcagcctg | gttatagctg | gtataaacct | 1440 |
| cacagaaata | ccagataacg | ccttggttgg | actggaaaac | ttagaaagca | tctcttttta | 1500 |
| cgataacagg | cttattaaag | taccccatgt | tgctcttcaa | aaagtgttaa | atctcaaatt | 1560 |
| tttgatcta | aataaaaatc | ctattaatag | aatacgaagg | ggatgattta | gcaatatgct | 1620 |
| acacttaaaa | gagttgggga | taataaatat | gcctgagctg | atttccatcg | atagtcttgc | 1680 |
| tgtggataac | ctgccagatt | taagaaaaat | agaagctact | aacaacccta | gattgtctta | 1740 |
| cattcacccc | aatgcatttt | tcagactccc | caagctggaa | tcactcatgc | tgaacagcaa | 1800 |
| tgctctcagt | gccctgtacc | atggtaccat | tgagtctctg | ccaaacctca | aggaaatcag | 1860 |
| catacacagt | aaccccatca | ggtgtgactg | tgctatccgt | tggatgaaca | tgaacaaaac | 1920 |
| caacattcga | ttcatggagc | cagattcact | gttttgctg | gaccacctg | aattccaagg | 1980 |
| tcagaatggt | cggcaagtgc | atttcaggga | catgatggaa | atttgcctcc | ctcttatagc | 2040 |
| tcctgagagc | tttccttcta | atctaaatgt | agaagctggg | agctatgttt | cctttcactg | 2100 |
| tagagctact | gcagaaccac | agcctgaaat | ctactggata | acaccttctg | gtcaaaaact | 2160 |
| cttgccctaat | accctgacag | acaagttcta | tgtccattct | gagggaacac | tagatataaa | 2220 |
| tggtcgtaact | cccaaagaag | gggttttata | tacttgtata | gcaactaacc | tagttggcgc | 2280 |
| tgacttgaag | tctgttatga | tcaaagtgga | tggatctttt | ccacaagata | acaatggctc | 2340 |
| tttgaatatt | aaaataagag | atattcaggc | caattcagtt | ttggtgtcct | ggaaagcaag | 2400 |
| ttctaaaatt | ctcaaatcta | gtgttaaatg | gacagccttt | gtcaagactg | aaaattctca | 2460 |
| tgctgcgcaa | agtgtctgaa | taccatctga | tgtcaaggta | tataatctta | ctcatctgaa | 2520 |
| tccatcaact | gagtataaaa | tttgtattga | tattcccacc | atctatcaga | aaaacagaaa | 2580 |
| aaaatgtgta | aatgtcacca | ccaaagggtt | gcaccctgat | caaaaagagt | atgaaaagaa | 2640 |
| taataccaca | acacttatgg | cctgtcttgg | aggccttctg | gggattattg | gtgtgatatg | 2700 |
| tcttatcagc | tgctctctc | cagaaatgaa | ctgtgatgg | ggacacagct | atgtgaggaa | 2760 |
| ttacttacag | aaaccaacct | ttgcattagg | tgagctttat | cctcctctga | taaattctctg | 2820 |
| ggaagcagga | aaagaaaaaa | gtacatcact | gaaagtaaaa | gcaactgtta | taggtttacc | 2880 |
| aacaaatatg | tcctaaaaac | caccaaggaa | acctactcca | aaaatgaaca | aaaaaaaaaa | 2940 |
| aagcgaaaaga | ctgcagttgt | gctaaaaaca | aaacaaaaca | aacaaacaaa | caaaaaagta | 3000 |
| aaaaaagatt | actttcgaga | gagaagttta | agcttcacca | atggctggct | cctggacca | 3060 |
| tgggaaatat | gttacaactt | tcaggcattt | tttaagtga | cttttttttt | ttt | 3113 |

<210> 668

<211> 980

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (937)..(937)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (956)..(956)

<223> n equals a,t,g, or c

<400> 668

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ncgttcgcca | gctcgaaatt | aaccctcact | aaagggaaca | aaagctggag | ctcgcgcgcc | 60 |
| tgcaggctga | cactagtggg | tccaaagaat | tcggcacgag | gggcgttcca | tcgaggcctt | 120 |
| tgatcgcagc | atcgacctgc | tggtgtcgcg | cctgcgccag | aagctggggg | atgaccccaa | 180 |
| ggctccgcaa | ttgatcaaga | cggtagcgcg | cgaaggctac | ctgttcgacg | cccgggatat | 240 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| cggttgatgc | gcgcgccctt | caacacgctg | ttcggggcgac | tggttcggcct | gttgctgggtg | 300 |
| gcgattgtgc | tgccccatgt | gctggcgcttc | ttctgggttcc | accactacgg | cccggccgcca | 360 |
| ccaccccgcg | cggccttcgt | cgaacaacca | gatggcagcc | tcacgccctt | gcgcaaagcg | 420 |
| cctcgccccct | ggttcgggcgg | cccgggtggtg | cccctgacat | ttcaatttat | ctcgctgatc | 480 |
| atcgctgcct | ggtacggcgc | caaactgctg | agccggccaa | tccagcgccct | gagcgagcgc | 540 |
| gccgagcgcc | tgagcgtcga | cctcgacagc | cgccccctgg | tggaaccggg | ccctcgcgaa | 600 |
| gcacgccaag | cggcctcgac | cttcaacctg | atgcaaaaagc | gcatccgcga | acaagtcagc | 660 |
| cagcgcgcac | gcatgctcgg | cgcggtctcc | cacgacctgc | gcaccccgct | ctcgcgctc | 720 |
| aagtgtcgcc | tggaacaaat | cgaagacccc | aagctgcaag | gccagatgcg | ccaggacctg | 780 |
| gacgacatga | tcggcatgct | cgatgccacc | ttgagctacc | tgacggaaca | gcgcaccagc | 840 |
| gagacacggc | attggctcga | tgtacaggcg | ttggtggaat | ccctgagtga | aaacgccag | 900 |
| gaccaaggcc | gcgacgtgca | gttttttttt | gggggggnccc | cccccgggg | gggggnccca | 960 |
| aaaaccccc | ccccctttttt | | | | | 980 |

<210> 669

<211> 888

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (845)..(845)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (864)..(864)

<223> n equals a,t,g, or c

<400> 669

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| ggcacgaggg | gcgttccatc | gaggcctttg | atcgacagcat | cgacctgctg | gtgtcgcgcc | 60 |
| tgcgccagaa | gctgggggat | gaccccaagg | ctccgcaatt | gatcaagacg | gtacgcggcg | 120 |
| aaggctacct | gttcgacgcc | cgggatatcg | gttgatgcgc | gcgccttca | acacgtgtgt | 180 |
| cgggcgactg | ttcggcctgt | tgctggtggc | gattgtgctg | gccccatstg | tggcgttctt | 240 |
| ctggttccac | cactacggcc | cgcgcgccacc | acycckygcg | kccttcgctg | aacaaccaga | 300 |
| tggcagctc | acgcccttgc | gcaaagcgcc | tcgccccctg | ttcggcgggc | cgggtggtgc | 360 |
| cctgacattt | caatttatct | cgctgatcat | cgctgcctgg | tacggcgcca | aactgctgag | 420 |
| ccggccaatc | cagcgccctga | gcgcagcggc | cgagcgctg | agcgtcgacc | tcgacagccc | 480 |
| gccccctggg | gaaaccggcc | ctcgcggaagc | acgccaagcg | gcctcgacct | tcaacctgat | 540 |
| gcaaaaagcgc | atccgcgaac | aagtcagcca | gcgcgcacgc | atgctcggcg | cgggtctccca | 600 |
| cgacctgcgc | accccgtctc | cgcgcctcaa | gttgcgcctg | gaacaaatcg | aagaccccaa | 660 |
| gctgcaaggc | cagatgcgcc | aggacctgga | cgacatgatc | ggcatgctcg | atgccacctt | 720 |
| gagctacctg | cacgaacagc | gcaccagcga | gacacggcat | tggtctgatg | tacaggcggt | 780 |
| ggtggaatcc | ctgagtgaat | acgcccagga | ccaaggccgc | gacgtgcagt | tttttttttg | 840 |
| gggggnccccc | cccggggggg | gggncccaaa | aacccccccc | cctttttt | | 888 |

<210> 670

<211> 1651

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1648)..(1648)

<223> n equals a,t,g, or c

<400> 670

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ggggacatgt | ctgggcacaa | ggaaaggcaa | gcaatggagg | cagcaagagc | ccttggcagc | 60 |
| aagtttccat | cacctttgcc | tgccagtgtg | tgagaggcgc | agaggggagc | tgagcagggtg | 120 |
| acatgcagct | tccagatacc | cacacactgc | ttttctcccg | cccagctccc | acccagttta | 180 |
| attgagatgg | gattgtttct | ctttctggtt | tcttcttaag | cccctctctc | atattcctgg | 240 |

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| tgtgcttatg | gcctggcaca | ccttggtgaaa | cagaaaccca | agctcctcat | ttcggagctg | 300 |
| ggatttcgat | tggctatctg | cctccctaac | caagctgtcc | cttccacctc | atccctagag | 360 |
| tcacctctg | gtctcatcaa | catccagtgg | gcatttcagy | ggcccaggat | ccttcmaatt | 420 |
| gcagatataa | agcatcagga | ccccacacct | gggatggaag | cttctaggaa | ttaatgaagc | 480 |
| cccagtagag | gtgagggtaa | acctaaaacg | ggctggatag | ggcctctccc | aagggccctat | 540 |
| ggaaagggtga | tgggaaactg | ggggctgagg | cctcatccta | ggagaccctt | ggagggaccc | 600 |
| acttacccta | gataggcagc | ggaggccaga | aactggaaaa | cagccactca | ttgtcgggtgc | 660 |
| attaccgtga | gcaccacctg | tagggactct | ggtggcctcc | agccgtcgtc | acacgttctt | 720 |
| gacaaccaca | aaagttcatt | tgagggtgcc | cagtcagctg | actttgtctt | caccaggaat | 780 |
| acccacctgg | ccctggctct | tctgctgagc | tacaggaggc | attcccaggg | tcttagcaaa | 840 |
| aacaaccctt | caaataggcc | cagtgcctac | aactctagag | aggtttcaga | tggatttgga | 900 |
| gacccagaga | agttaactga | ctttcccaaa | agtcacccac | tgtaaatggc | agacagatct | 960 |
| caaaccacaca | tctgakectg | agtccagtgt | tttttctcta | gtatcatcat | tgccccctaa | 1020 |
| atgtgtttga | cacatcatag | tttacaatc | accttactc | atattctctc | actactcatc | 1080 |
| agtcattgaat | tcagccaatg | agaagggctc | agagagggtta | actaaccagc | cacgctgttt | 1140 |
| acatggggca | tagactgctt | catgaacgct | tgactgcagc | tttgccctcc | tcatgccctc | 1200 |
| aaaaagggaag | gagctgacca | aagcttacta | taccatagct | ggggtctggg | acccccagcc | 1260 |
| aggtctcaca | gatgatctgg | gaatggcctc | cctgttgctc | tcaggggtcc | ggcagtcaca | 1320 |
| cagaagagtc | aggttgaaat | cttggaaga | ctttggtgtg | gctttgggaa | ctgggtttaa | 1380 |
| cctcttgggg | acttcacaa | gacagtggca | aaggacacca | cctacagctt | ccagtgcctc | 1440 |
| tctactctcc | cacctgtgct | cctggggttg | aatgagacca | gaagcagctg | ggacaagatt | 1500 |
| tggaaagata | aagagagcca | ggagacaaga | ccttgagaga | agcasaggtc | tggctggctg | 1560 |
| ctgscctctg | gtggcgacaa | tgggtgacac | tgtaaacccc | tctgcaaggc | gacactctcc | 1620 |
| cctgactatt | caggraggga | agaagcantt | g | | | 1651 |

<210> 671

<211> 1746

<212> DNA

<213> Homo sapiens

<400> 671

| | | | | | | |
|------------|-------------|-------------|-------------|------------|-------------|------|
| gcgttcgcgc | acctccagct | cgggccgatg | tggaaagcttt | ggagagctga | agagggcgcg | 60 |
| gcggcgctcg | gcggcgcgct | cttcctgctg | ctcttcgcgc | taggggtccg | ccagctgctg | 120 |
| aagcagaggg | ggccgatggg | cttccccccg | gggcccgcgg | ggctgccatt | tatcggcaac | 180 |
| atctattccc | tggcagcctc | atccgagctt | ccccatgtct | acatgagaaa | gcagagccag | 240 |
| gtgtacggag | aggtacagcc | ccgacggggc | ccgggcaggg | agggccgcca | ggctggcccc | 300 |
| ggctggccag | ggccttctcg | gttggaactta | tggccgcccc | tgggcccact | agtcgggacc | 360 |
| tctccgtgtg | ccggctgccc | tttgaggggac | acccgcttcc | cgggtctgga | agggagaagt | 420 |
| cctcgacgcc | gtgccccctt | gcagggggag | cccgcacct | gccggtgacc | cactccgggc | 480 |
| cgaggctccg | aggcgatcca | gtcctgattt | tcccgtacc | gctcgagctc | ttgtctctgc | 540 |
| gcctgcgcgc | tttggtctgc | cagccgcgcc | gccacttcag | gtccagggtg | gacgcagcc | 600 |
| ctcagggtgc | ggcgtcttgc | gagtcggcct | cgagctctg | tggaaagctg | acgcggcttg | 660 |
| tcggaaaatc | aaggcgttct | gagttctaga | tggttaatag | caggttcttc | ggtgtctgca | 720 |
| gtcgacgaac | gactggtgta | ggcgtttgct | gtgagaatgg | agaatgcagg | ggaacgcccc | 780 |
| tgactgagaa | gcgggccctg | ggaaacgatt | tgaaacgcgt | gaatgaattg | atgactaaaa | 840 |
| tccgctgcgg | gggtcctaca | gcgcagatgg | taatgccgtt | ctgactggct | gggaacggca | 900 |
| ccttagcaga | tacttaaaaag | gcgccttctg | tgtgccactg | tcactgccaa | cttgggtgact | 960 |
| cattttaaag | tcataaccag | ccggtgaggt | cggtacttcg | ctcctcctca | ttctgaggag | 1020 |
| gggaaagcag | cacggaaatg | ccctgtgact | ggcagcgga | aaggcgacca | ccgcttgtgt | 1080 |
| gtgggtgtcc | cgacgtccgg | agggggcagg | agtttccacg | ggtcctggga | cagagctcac | 1140 |
| ctgttttgtt | ttgaattaca | cttatttata | tgcaactaca | ggcctgacgc | tagcggtgaa | 1200 |
| gaaggcagat | acagcctttt | aaggagtgg | cagatgagtg | ggagagagaa | aactaatctc | 1260 |
| attatcgggc | acaggctgtg | gtcagtggtt | tgaaggaaaa | gtacagggat | gtttggcaac | 1320 |
| tgtggtattt | caggtttgac | cttaaatcct | tacttaaac | agtttttaca | aggattggct | 1380 |
| taggtgcccc | ggcgcgggtg | tcacgcctat | aatcccagca | ctttgggagg | ccgagggcgg | 1440 |
| cggatcacga | aatcaggaga | tcgagaccgt | cgtggctaac | acggtgaaac | cccattctta | 1500 |
| ctaaaagaat | acaaaaaatt | ggccgggcgt | ggtggcgggc | acctgtgggc | ccagctattc | 1560 |
| gggaggctgg | ggcaggagag | tggcgtgaac | ccgggaggcg | gagctttcag | tgagccgaga | 1620 |
| tcgcgcactt | gcactccagc | ctgggcaaca | gagccagact | ccgtctcaaa | aaaaaaaaaa | 1680 |
| aaaaaggggc | gccgctctag | aggatccaag | cttacgtacg | cgtgcatgcg | acgtcaatag | 1740 |
| ctcttc | | | | | | 1746 |

<210> 672
 <211> 2492
 <212> DNA
 <213> Homo sapiens

<400> 672
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 actgtaccca actgcaacaa gccgcgtgg gagaaatgg tcatgggtgac gtttgcttcc 180
 tccacgctgt ggatcgagc cttctectac atgatgggtg ggatgggtcac aatcattggt 240
 tacaccctgg ggattcctga cgtcatcatg ggggatcacc ttcctggctg ctgggaccag 300
 cgtgcctgac tgcattggcca gcctcattgt ggccagacaa gggatggggg acatggctgt 360
 gtccaactcc attgggagca acgtgtttga catcctgatt ggccctcggtc tcccctgggc 420
 tctgcagacc ctggctgtgg attacggatc ctacatccgg ctgaatagca gggggctgat 480
 ctactccgta ggcttgctcc tggcctctgt ttttgtcacg gtgttcggcg tccacctgaa 540
 caagtggcag ctggacaaga agctgggctg tgggtgcctc ctctgtatg gtgtgttcct 600
 gtgcttctcc atcatgactg agttcaactg gttcaccttt gtgaacctgc ccatgtgcgg 660
 ggaccactga gccgcgggt gccacagaa gctcagctcc tctctttctg tgcaatacga 720
 gacccggcgg caccctcagc cacacaggcc cctggggcca cggcgctcgt ctctcctgtg 780
 ctgtctcag gcctccgctc ctgttttgggt ggccagggt cctccctgcc ccatcctcgc 840
 tccccacct ccttgggtca tggccacca ccctttcctg cctcctcgt gtgaagacat 900
 ccaacatcca cgtgactttt ccagctccat tttgaacag tgactgagat tctagaaaaa 960
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 gggggccgtt gattacagag agcatttggg attttgtttg gtttggagat gatgcctagg 1140
 ttactgggtt tggggggatt gttttctttt gggggccttc cccttttact ccttttcttc 1200
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 <211> 587
 <212> DNA
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<210> 675
 <211> 2242
 <212> DNA
 <213> Homo sapiens

<400> 675

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| tcttctcgcc | gctcctcgca | gggcttgcac | tactgggagt | cgggcccgtc | ccagcgcggg | 120 |
| cgctgcacaa | cgtcacggcc | gagctctttg | gggcccaggc | ctggggcacc | cttgcggctt | 180 |
| tcggggacct | caactccgac | aagcagacgg | atctcttcgt | gctgcgggaa | agaaatgact | 240 |
| taatcgtctt | tttggcagac | cagaatgcac | cctattttta | acccaaagta | aaggtatctt | 300 |
| tcaagaatca | cagtgcattg | ataacaagtg | tagtccctgg | ggattatgat | ggagattctc | 360 |
| aaatggatgt | ccttctgaca | tatcttccca | aaaattatgc | caagagtga | ttaggagctg | 420 |
| ttatcttctg | gggacaaaat | caaacattag | atcctaaca | tatgaccata | ctcaatagga | 480 |
| cttttcaaga | tgagccacta | attatggatt | tcaatgggtg | tctaattcct | gatatttttg | 540 |
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| cagcattgac | cactacaagt | aaaatgcgaa | ttccacattc | tcatgcattt | attgatctga | 660 |
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| agtttgaaat | atgggaaaat | ttggatggaa | acttytstgw | magtacymta | ttggaaaaac | 780 |
| ctcaaaatat | gatggtggtt | ggacagtcag | catttgacga | ctttgatgga | gatggacaca | 840 |
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| tgagatctgg | gatgaagcag | tgggttccag | tcctacaaga | tttcagcaat | aaggggcacac | 960 |
| tctggggctt | tgtgccattt | gtggatgaac | agcaaccaac | tgaataacca | attccaatta | 1020 |
| cccttcatat | tgagactac | aatatggatg | gctatccaga | cgctctggtc | ataactaaaga | 1080 |
| acacatctgg | aagcaaccag | caggcctttt | tactggagaa | cgtcccttgt | aataatgcaa | 1140 |
| gctgtgaaga | ggcgcgctga | atgtttaaag | tctactggga | gctgacagac | ctaaatcaaa | 1200 |
| ttaaggatgc | catggttgcc | accttctttg | acatttacga | agatggaatc | ttggacattg | 1260 |
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| tgtggaatgt | gttgcatgta | ctccagtgtt | tgtgtattta | taatcttatt | tgcacatgta | 2160 |
| tgatggaaaa | agttgtgtaa | ataaaaataa | ttaaatgagc | aggaaaaaaa | aaaaaaaaaa | 2220 |
| aaaaaaaaaa | aagggcgggc | gc | | | | 2242 |

<210> 676

<211> 2381

<212> DNA

<213> Homo sapiens

<400> 676

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| acgcgtcccc | gggctgcgcg | ccactctctc | ggccggtaac | gcgggtgctt | gcgggtgtcg | 120 |
| tcaagcgcg | cggtgggccc | gcgggcgggg | gctgaggggc | tgccatggcg | gcggcgggcc | 180 |
| ggctcccag | ctcctgggce | ctcttctcgc | cgtcctcgc | agggttgca | ctactgggag | 240 |
| tcgggcccgt | cccagcgcg | gcgctgcaca | acgtcacggc | cgagctcttt | ggggccgagg | 300 |
| cctggggcac | ccttgcggct | ttcggggacc | tcaactccga | caagcagacg | gatctcttcg | 360 |
| tgctgcggga | aagaaatgac | ttaatcgtct | ttttggcaga | ccagaatgca | ccctatttta | 420 |
| aacccaaagt | aaaggtatct | ttcaagaatc | acagtgcatt | gataacaagt | gtagtccctg | 480 |
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| atatgaccat | actcaatagg | acttttcaag | atgagccact | aattatggat | ttcaatgggtg | 660 |
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| gagggaaatt | atcatggcat | ccagcattga | ccactacaag | taaaatgcga | attccacatt | 780 |
| ctcatgcatt | tattgatctg | actgaagatt | ttacagcaga | tttattcctg | acgacattga | 840 |
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<210> 677

<211> 1931

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n equals a,t,g, or c

<400> 677

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1931

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<211> 1517

<212> DNA

<213> Homo sapiens

<400> 678

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1517

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<211> 2751

<212> DNA

<213> Homo sapiens

<400> 679

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cggcagccag acaggaaatg acatcggaga gagagacaag atcacagaga atccagtcag 960
taccggcgag aaaaacgcgg ccacgtggag catcctggct gtctgtgccc tgccttggtg 1020
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catggactcc cagactgcag gggagcactt ggggcagccc ccagaaggac cactgctgga 1260
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cccacaggaa gggactgggt atgggctgtc tctaccgga gcgtgcggga ttcagcacca 1440
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ccgaaggggt tttggtttaa aaagaagact gggcgtccgc tcttcaggga cggcctctgt 1560
gctgctgggg tcacgcgagg ctgtttgcag gggacacggg cacaggagct cttctgccct 1620
gaacgctccc aacctgcctc ccgcccggaa gccacaggac ccactcatgt gtgtgcccac 1680
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gcagttaggt gcatggagag ggtatcacct ggtggccaca gtccccctt tcacctcagc 2040
aatgatcccc aaagtgagag gtggctcccc cggccccac caccctcagc agccccacc 2100
cactcaaccc tgagggtccc cagggtcctg atgaagacct ccgaccccag cgccaggctc 2160
ctcggagccc aacagtccca agggggcagg agacggggtg gtccagtgtg gagggttaca 2220
gccctgggcc ctgaccagcc ccggcacctg ccatgctggt tcccggaatg aatcagctgc 2280
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gttacaagaa attggttttc tgcaaaaaaa gtccctacct grgcctttag gtgaatgtgg 2640
gatccactcc cgcttttaac atgaaagcat tagaagatgt gtggtgttta taaaaraaaa 2700
aaaaaaaaa ctcgaggggg ggcccgtacg ggaattcgcc ctatagttag t 2751

```

<210> 680

<211> 468

<212> DNA

<213> Homo sapiens

<400> 680

```

gtgagaagat aatcctgaga ggctgcatcc tgagaaatac cagctgggtg tttggaatgg 60
ttatttttgc aggtcctgac actaaactaa tgcagaatag tggtaagaca aagtttaaaa 120
ggacaagcat tgatagattg atgaatactc tagtactatg gatttttggg tttctgatat 180
gcttgggaaat tattcttgca ataggaatt caatctggga gagtcaaact ggggaccaat 240
tcagaacttt cctcttttgg aatgaaggag agaagagctc tgtgttctcc ggattcttaa 300
cattctgggtc atatattatt attctcaata cagttgtacc catttcttta tatgtgagtg 360
tggaaagtaat tcgtctagga cacagttatt ttataaactg ggaccggaag atgtattaty 420
ctcgaaaagc aatacctgca gtggctcgaa cgaccacgct caatgagg 468

```

<210> 681

<211> 181

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (178)..(178)

<223> n equals a,t,g, or c

<400> 681

```

ggtcagtgtg cagatagcct tggataccag ktactggact ttcattaatc acgtcttcat 60

```

```

ctggggggagc attgccattt atttctccat tttatttaca atgcacagta atggcatctt 120
tggcattcttc ccaaaccagt ttccatttgt tggtaatgca cgacattccc tgacccanaa 180
g 181

```

```

<210> 682
<211> 612
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (47)..(47)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (534)..(534)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (537)..(537)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (563)..(563)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (565)..(565)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (591)..(591)
<223> n equals a,t,g, or c

```

```

<400> 682
cagtctgggc ttaagaaacc accagaagaa ccaaaccag aaatgcnaa gtgtaaattgc 60
aaaaattctt atagaagaaa tagcataaga atttgacat tcggaaataa gaccaccttc 120
catgaacaag gagaagcctt tggagatata taaactgtgc aaatgaatag tcgctggcta 180
agactgcttg caatccttcc tggccgctga tgccaacacc aatgtgagca cttttaatca 240
tgctgacatc attggctcca tcwccaatgg ccaaagtaac agcatttctg tacttcttca 300
ccagctctac cacttgggct ttctggagtg gaggaccct gcagcaaatt acagtcttac 360
acatgcaagc aagttctagg agatcattct tgacatcact ttctagggca tgagccaaac 420
tgtggccatt tatgattaag gcataatctc ctgttatggt ttcttctaca atagaatcca 480
actccagctg ctgctttttt tcacaaacta catggccatt ggaaaaattt ctgnttngtc 540
caaacaaatt ttgttttgaa atnangagtt cttctctcac ttccacagca nttattccct 600
gctataggga gg 612

```

```

<210> 683
<211> 1024
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (29)..(29)
<223> n equals a,t,g, or c

```

<220>

<221> misc_feature

<222> (986)..(986)

<223> n equals a,t,g, or c

<400> 683

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| tgctttctctg | agttcttctc | tcacttccnc | agcattatcc | cctgctatcc | caaacmcac | 60 |
| attcatgtcg | tcagtcagca | tggtgcaggc | ataaccgatg | ttgatgscag | tttcttgttt | 120 |
| gtctcctgtt | aggaccaga | tcttaattt | ggctagtgt | aaacttgtaa | ctgtttcaat | 180 |
| aacaccctcc | tgtaacttat | cttctacagc | agtggcacct | agtagcatca | aatctctttc | 240 |
| aatttcttca | tatagcccag | ctattcggtc | atccctctct | tctgtggcaa | cattcgcac | 300 |
| ttcaagcatc | ttatgccact | ctttaaagta | cttgctatcc | aggtctctgt | atgcgatggc | 360 |
| caaggtccga | aggccttccc | ctgcaaattc | actgaggtgg | tctgacgtca | aagacaaaag | 420 |
| gacttcattg | gaaggatsaa | gtttctcaaa | cagaatagta | tctgctcctt | tggaaataag | 480 |
| ctttatctgt | ccttctgggt | ttcgarttat | gacagacatc | cttttcttgg | tgtgttgtaa | 540 |
| atccaaaaag | gcaagtaatt | gataagtaac | tagtgttccc | aattcttcta | ttgttatggg | 600 |
| ctctgggggc | cgggatttaa | aratgaaccc | aaaatttcta | gcggcagtc | ctagagcccc | 660 |
| ttcatcaggt | gactgaactt | ggtaaatcag | ctctcctgcg | ctattctctt | ctgacattac | 720 |
| agtgtggcag | agagcaagta | acctaaggaa | ttcatgaact | ttgggatcac | ccattttaat | 780 |
| ggattccatc | agattgtggg | caaagaactg | aaattctcta | tccgcttgag | atttgactga | 840 |
| gaaatccaca | ggctcttttt | cctgagttat | ttctgtcttc | tgatccaggt | catcatgtac | 900 |
| ttcaccatag | attctcccat | taatggaaca | tcttttaaag | gtcatgatgt | tttgagtggg | 960 |
| ggtagccgtt | ttgtcggaga | aaatgnactc | aatctgcccc | agttcttcat | tgagcgtggg | 1020 |
| cggt | | | | | | 1024 |

<210> 684

<211> 366

<212> DNA

<213> Homo sapiens

<400> 684

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| gacgcgtggg | agctcattat | ccatcaaact | cactcargtg | wcacytgagt | gagtttgatg | 60 |
| gataatgagc | taatgtgata | tctataggtc | acaatttttt | aaaacaaaa | ttttcaagtc | 120 |
| tggtgataatc | tttctaaat | gggatcaa | gaaataatat | gtgtaaaaga | gtcaaagca | 180 |
| gtcctttacc | atagtaactg | cctatggacg | ttgtctttcc | cttacatgcc | tgccctacact | 240 |
| taaccagatg | ttgtttttca | agtcataat | gtcattagtt | tcaccacatt | kgctcacttt | 300 |
| tkgtaacatt | tttgcaagat | ttgaaaactt | tcagtaaatg | ttttggcact | attggtaaaa | 360 |
| aaaaaa | | | | | | 366 |

<210> 685

<211> 519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (371)..(371)

<223> n equals a,t,g, or c

<400> 685

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| cctgggttagg | gtcctacagg | gaaataaaat | tataaccgtg | gaggtagatt | tctctaccag | 60 |
| aaagcaaaaa | taaagcatca | tgtcttaatt | gttttctaca | aatcaacttc | taattctaca | 120 |
| gagtccttaa | tctgggtccct | attaaattct | tggtcagaca | aagttacatt | tcccaagaga | 180 |
| gtcaggtgac | acttgagtga | gtttgatgga | taatgagcta | atgtgatatc | tataggtcac | 240 |
| aattttttta | aacaaaaatt | ttcaagtctg | ggataatctt | tcctaaatgg | gatcaaatga | 300 |
| aataatatgt | gtaaaagagt | caaatgcagt | cctttaccat | agtaactgcc | tatggacgtt | 360 |
| gtctttccct | nacatgcctg | cctacactta | accagatgtt | ggttttcaat | gtctaatttg | 420 |
| tcattagtgt | caccacattt | gctcactttt | tgtaacattt | ttgcaagatt | tgaaaacttt | 480 |
| cagtaaatgt | tttggcacta | ttggtaaaaa | aaaaaaaa | | | 519 |

<210> 686
 <211> 1867
 <212> DNA
 <213> Homo sapiens

<400> 686

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| cccacgcgtc | cgggccacag | cagagacagt | ggagggcagt | ggagaggacc | gcgctgtcct | 60 |
| gctgtcacca | agagctggag | acaccatctc | ccaccgagag | tcatggcccc | attggccctg | 120 |
| cacctcctcg | tcctcgctcc | catcctcctc | agcctggtgg | cctcccagga | ctggaaggct | 180 |
| gaacgcagcc | aagaccctt | cgagaaatgc | atgcaggatc | ctgactatga | gcagctgtct | 240 |
| aaggtggtga | cctgggggct | caatcggacc | ctgaagcccc | agaggggtgat | tgtggttggc | 300 |
| gctggtgtgg | ccgggctggt | ggccgccaag | gtgctcagcg | atgctggaca | caaggtcacc | 360 |
| atcctggagg | cagataacag | gatcgggggc | cgcattctca | cctaccggga | ccagaacacg | 420 |
| ggctggattg | gggagctggg | agccatgcgc | atgcccagct | ctcacaggat | cctccacaag | 480 |
| ctctgccagg | gcctggggct | caacctgacc | aagttcaccc | agtacgacaa | gaacacgtgg | 540 |
| acggaggtgc | acgaagtga | gctgcgcaac | tatgtggtgg | agaagggtgcc | cgagaagctg | 600 |
| ggctacgcct | tgcgtcccca | ggaaaagggc | cactcgcccc | aagacatcta | ccagatggct | 660 |
| ctcaaccagg | cctcaaaaga | cctcaaggca | ctgggctgca | gaaaggcgat | gaagaagttt | 720 |
| gaaaggcaca | cgctcttggg | atatcttctc | ggggagggga | acctgagccg | gccggccgtg | 780 |
| cagcttcttg | gagacgtgat | gtccgaggat | ggcttcttct | atctcagctt | cgccgaggcc | 840 |
| ctccgggccc | acagctgcct | cagcgacaga | ctccagtaca | gccgcatcgt | gggtggctgg | 900 |
| gacctgctgc | cgcgcgcgct | gctgagctcg | ctgtccgggc | ttgtgctgtt | gaacgcgccc | 960 |
| gtggtggcga | tgaccaggg | accgcacgat | gtgcacgtgc | agatcgagac | ctctcccccg | 1020 |
| gcgcggaatc | tgaagggtgt | gaaggccgac | gtggtgctgc | tgacggcgag | cggaccggcg | 1080 |
| gtgaagcgca | tcaccttctc | gccgcgctg | ccccgccaca | tgacaggagg | gctgcggagg | 1140 |
| ctgcactacg | tgccggccac | caaggtgttc | ctaagcttcc | gcaggccctt | ctggcgcgag | 1200 |
| gagcacattg | aaggcggcca | ctcaaacacc | gatcgcccgt | cgcgcatgat | tttctacccg | 1260 |
| ccgcccgcgc | agggcgcgct | gctgctggcc | tcgtacacgt | ggtcggacgc | ggcggcagcg | 1320 |
| ttcgccggct | tgagccggga | agaggcgttg | cgcttggcgc | tcgacgacgt | ggcggcattg | 1380 |
| cacgggcctg | tcgtgcgcca | gctctgggac | ggcaccggcg | tcgtcaagcg | ttggggcgag | 1440 |
| gaccagcaca | gccagggtgg | ctttgtggta | cagccgcccg | cgctctggca | aaccgaaaag | 1500 |
| gatgactgga | cggtcctcta | tggccgcatc | tactttgccg | gcgagcacac | cgcttacccg | 1560 |
| cacggctggg | tggagacggc | ggtcaagttg | ctgcgcgccc | ccatcaagat | caacagcccg | 1620 |
| aaggggcctg | catcggacac | ggccagcccc | gaggggacag | catctgacat | ggaggggcag | 1680 |
| gggcatgtgc | atgggggtgg | cagcagcccc | tcgcatgacc | tggcaaagga | agaaggcagc | 1740 |
| caccctccag | tccaaggcca | gttatctctc | caaaacacga | cccacacgag | gacctcgcat | 1800 |
| taaagtattt | tcggaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1860 |
| aaaaaaa | | | | | | 1867 |

<210> 687
 <211> 1722
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (401)..(401)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (695)..(695)

<223> n equals a,t,g, or c

<400> 687

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| gggaccgcgc | tgtcctgctg | tcaccaagag | ctggagacac | catctccccc | cgagagtcac | 60 |
| ggccccattg | gccctgcacc | tcctcgctct | cgtccccatc | ctctcagcc | tgggtggcctc | 120 |
| ccaggactgg | aaggctgaac | gcagccaaga | ccccttcgag | aaatgcatgc | aggatcctga | 180 |
| ctatgagcag | ctgctcaagg | tcaccatcct | ggaggcagat | aacaggatcg | ggggccgcat | 240 |
| cttcacctac | cgggaccaga | wyacgggctg | gattggggag | ctggggagcca | tgcgcatgcc | 300 |
| cagctctcac | aggatcctcc | acaagctctg | ccagggcctg | gggtcaacc | tgaccaagtt | 360 |

```

caccagctac gacaagaaca cgtggacgga ggtgcacgaa ntgaagctgc gcaactatgt 420
ggtggagaag gtgcccagaga agctgggcta cgccttgctg cccagggaaa agggccactc 480
gcccgaagac atctaccaga tggctctcaa ccaggccctc aaagacctca aggcactggg 540
ctgcagaaag gcgatgaaga agtttgaag gcacacgctc ttggaatata ttctcgggga 600
ggggaacctg agccggcccg ccgtgcagct tctgggagac gtgatgtccg aggatggctt 660
cttctatctc agcttcgccc aggccctccg ggccnacagc tgccctcagc acagactcca 720
gtacagccgc atcgtgggtg gctgggacct gctgccgcgc gcgctgctga gctcgctgtc 780
cgggcttggt ctgttgaacg cgcctgtggt ggcatgacc caggggaccg acgatgtgca 840
cgtgcagatc gagacctctc cccggcgcg gaatctgaag gtgctgaagg ccgacgtggt 900
gctgctgacg gcgagcggac cggcggtgaa gcgcatcacc ttctcgccgc gctgccccgc 960
cacatgcagg aggcgctgcg gaggtgcac tacgtgccgc ccaccaaggt gtccctaagc 1020
ttccgcaggc ccttctggcg cgaggagcac attgaaggcg gccactcaaa caccgatcgc 1080
ccgtcgcgca tgattttcta cccgccgccg cgcgaggcg cgctgctgct ggccctcgta 1140
acgtggtcgg acgcggcggc agcgttcgcc ggcttgagcc gggaagaggc gttgcgcttg 1200
gcgctcgacg acgtggcggc attgcacggg cctgtcgtgc gccagctctg ggacggcacc 1260
ggcgtcgta agcgttgggc ggaggaccag cacagccagg gtggctttgt ggtacagmcg 1320
ccggcgctct ggcaaaccga aaaggatgac tggacggtcc cttatggccg catctacttt 1380
gccggcgagc acaccgccta cccgcacggc tgggtggaga cggcgggtcaa gtcggcgctg 1440
cgcgccgcca tcaagatcaa cagccggaag gggcctgcat cggacacggc cagccccgag 1500
gggcacgcat ctgacatgga ggggcagggg catgtgcatg ggggtggccag cagccccctg 1560
catgacctgg caaagggaaga aggcagccac cctccagtc aaggccagtt atctctccaa 1620
aacacgaccc acacgaggac ctcgcattaa agtatatttcg gaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggcgcg cc 1722

```

<210> 688

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (508)..(508)

<223> n equals a,t,g, or c

<400> 688

```

ggtcgaccca cgcgtccgcc cacgcgtccg gcttccttaa tgtaatttaa accctggcaa 60
acattcttta gaaaccaaga ggaaagaaag aacaaatata aaaaaagaca tagaatttaa 120
tattgataca atttcacctc taaaatggat ttgaagaaat gcaactttat atcaaaaaat 180
gtcatctgat ttcttttgtt tcttttttaa attatgtaat cagatgattt tatgtttttt 240
tttcagggga gcggaatatt ggtttctttt acttggtgtt ttcagttttc tctgccattc 300
atgtttcttt tttgtgttca gtgtttcaaa tacaatttgt atttaaggat tttaaaatac 360
caaactgtaa ctgagtacag tggatcgttt tctgttagga tgtaaatatt atacaatgaa 420
atctataaag tggtgtcaat ttgattattg acacatataa catgtttaca aataaactgt 480
ggtattgatc aaaaaaaaaa aaaaaaanc cggggggggc cccggaaccc aatccc 536

```

<210> 689

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (322)..(322)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (394)..(394)

<223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (397)..(397)
 <223> n equals a,t,g, or c

<400> 689
 gtttgcgagc ggctggaacc agacgggtgcc gatagaggaa gcgggctcca tggctgccct 60
 cctgctgctg ccctgctgc tgttgctacc gctgctgctg ctgaagctac acctctggcc 120
 gcagttgcgc tggtttccgg cggacttggc ctttgcggtg cgagctctgt gctgcaaaag 180
 ggctcttcga gctcgcgccc tggccgcggc tgccgcccac ccggaaggtc ccgagggggg 240
 ctgcagcctg gcctggcgcc tcgcggaact ggcccagcag cgcgcggaac ttttattacg 300
 gtcgcgcgct ttagctactc anaggcggag cgcgagagta acaggctgac gcgccttcct 360
 acgtgcgcta ggctgggact ggggaccgca cgnggn 397

<210> 690
 <211> 716
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (630)..(630)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (710)..(710)
 <223> n equals a,t,g, or c

<400> 690
 gcctcagcgg ccggggccac ggccccgagc agccatgctg ggcgcgcggg cctgggttggg 60
 ccgcgtcctt ctgctgcccc gcgccggtgc aggcctcgcc gcragccgca ggtgtcctgg 120
 agtctggccc aggacctggc ccacaggag tcccagcagg ggtagctcct ccggggacaa 180
 ggaccgaagt gcgacggtca gtagtctagt gcccatgcct gctggaggga aaggaagcca 240
 tccttcattc acaccccaga gggccccaa ccgcctgatc caccgagaag caccatacct 300
 cctacaacat gcctacaatc ctgtggactg gtaccccttg ggacaggaag ccttcgacaa 360
 ggccaggaag gaaaacaagc cgattttcct ctcagtcggg tactccacct gccactgggtg 420
 ccacatgatg gaagaggagt ccttcagaa tgaggagatt ggccgcctgc tcagtggaga 480
 ctttgtgagt gtgaaggtag accgtgagga gcggcctgac gtggacaagg tgtacatgac 540
 gttcgtgcag gccaccagca gcggcggggg ctggcccatg aatgtgtggc tgactcccaa 600
 cctccagccc ttgtcgggg gcactatttn cctcctgaag gatggcttga mccgagtsgg 660
 ttccgcacag tgttktgag aatacgagaa cartggaaac agaacaagan caccct 716

<210> 691
 <211> 2716
 <212> DNA
 <213> Homo sapiens

<400> 691
 ggccggggccc acggcmccga gcagccatgc tggggcgcgcg ggcttgggtg ggccgcgtcc 60
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 cttccaggct gaactccctg aggtctctga ttccctagggt gtccctggagt ctggcccagg 180
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<210> 692

<211> 427

<212> DNA

<213> Homo sapiens

<400> 692

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cagctctggt ttcttctcgc gtttattctg ttagaatgaa atgggttccca taaataaggg      360
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<210> 693

<211> 1257

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (589) .. (589)

<223> n equals a,t,g, or c

<400> 693

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| aagtgtccag | gtgtgagcat | gagcgggtag | aggtgtgccc | ttgtttgctt | caggctgtct | 120 |
| gctttttcgcc | cctgactgtt | ttttctgttt | ctggccatgg | aggaagagaa | agatgacagc | 180 |
| ccacaggctg | acttctgcct | gggcaccgcc | ctgcaactct | ggggactgtg | gttmacggag | 240 |
| gaagggtmac | cgccaccat | gctgacgggg | attgcagttg | gagccctcct | ggcctgggc | 300 |
| ttggttggtg | tcctcatcct | tttcatgttc | agaaggctta | gacaatttcg | acaagcacag | 360 |
| cccactcctc | agtaccggtt | ccggaagaga | gacaaagtga | tgttttacgg | ccggaagatc | 420 |
| atgaggaagg | tgaccacact | ccccaacacc | cttgtggaga | acactgccct | gccccggcag | 480 |
| cgggccagga | agaggaccaa | ggtgctgtct | ttggccaaga | ggattctgcg | tttcaagaag | 540 |
| gaatacccng | gcctgcascc | caaggacccc | cggccttccc | tgctggagnc | cgacttcacg | 600 |
| gagtttgacg | tgaagaattc | tcacctgcca | tcggaagttc | tgtagatgct | gaaaaacgtt | 660 |
| cgggtcctgg | gccactttga | gaagccgctg | ttcctggagc | tttgcaaca | catcgtcttt | 720 |
| gtgcagctgc | aggaaggggg | gcacgtcttc | cagcccagg | agccggaccc | cagcatctgt | 780 |
| gtggtgcagg | acgggcggct | ggaggtctgc | atccaggaca | ctgacggcac | cgaggtggtg | 840 |
| gtgaaagagg | ttctggcggg | agacagcgtc | cacagcctgc | tcagcatcct | ggacatcatc | 900 |
| accggccatg | ctgcacctta | caaaacggtc | tccgtccrcg | cggccatccc | gtccaccatc | 960 |
| ctccggcttc | cagctgcggc | ttttcatgga | gtttttgaga | aatatccgga | aactctggtg | 1020 |
| aggggtggtg | agatcatcat | ggtgcggctg | cagagggtga | cctttctggc | tctgcacaac | 1080 |
| tacctcggcc | tgaccacaga | gctcttcaac | gctgagagcc | aggccatccc | tctcgtgtct | 1140 |
| gtagccagtg | tggctgccgg | gaaggccaag | aagcaggtgt | tctatggcga | agaagagcgg | 1200 |
| cttaaaaagc | caccgcggct | ccaggagtcc | tgtagctcag | atcacggggg | cggccgc | 1257 |

<210> 694

<211> 3302

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3274) .. (3274)

<223> n equals a,t,g, or c

<400> 694

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| ggccctggag | tccacgcgga | ttttcgaagc | tggggctggc | aagaggccgc | tggacaccac | 120 |
| gctccagtcg | tcagcccaact | tcctagctga | acagcgcgag | gcggcggcag | cgagccgggt | 180 |
| cccaccatgg | ccgcgaatta | ttccagtacc | agtaccggga | gagaacatgt | caaagttaaa | 240 |
| accagctccc | agccaggctt | cctggaacgg | ctgagcgaga | cctcgggtgg | gatgtttgtg | 300 |
| gggctcatgg | ccttctgct | ctccttctac | ctaattttca | ccaatgaggg | ccgcgcattg | 360 |
| aagacggcaa | cctcattggc | tgaggggctc | tcgcttgtgg | tgtctcccga | cagcatccac | 420 |
| agtgtggctc | cggagaatga | aggaaggctg | gtgcacatca | ttggcgcctt | acggacatcc | 480 |
| aagcttttgt | ctgatccaaa | ctatggggtc | catcttccgg | ctgtgaaact | gcggaggcac | 540 |
| gtggagatgt | accaatgggt | agaaactgag | gagtcagggt | agtacaccga | ggatgggcag | 600 |
| gtgaagaagg | agacgaggta | ttcctacaac | actgaatgga | ggtcagaaat | catcaacagc | 660 |
| aaaaacttcg | accgagagat | tggccacaaa | aacccacgtg | ccatggcagt | ggagtcattc | 720 |
| ayggcaacag | ccccctttgt | ccaaattggc | aggtttttcc | tctcgtcagg | cctcatcgac | 780 |
| aaagtcgaca | acttcaagtc | cctgagccta | tccaagctgg | aggaccctca | tgtggacatc | 840 |
| attcgccgtg | gagacttttt | ctaccacagc | gaaaatccca | agtatccaga | gktgggagac | 900 |
| ttgcgtgtct | ccttttcccta | tgctggactg | agcggcgatg | accctgacct | gggcccagct | 960 |
| cacgtgggtca | ctgtgattgc | ccggcagcgg | ggtgaccagc | tagtcccat | ctccaccaag | 1020 |
| tctggggata | ccttactgct | cctgcaccac | ggggacttct | cagcagagga | ggtgtttcat | 1080 |
| agagaactaa | ggagcaactc | catgaagacc | tggggcctgc | gggcagctgg | ctggatggcc | 1140 |
| atgttcattg | gcctcaacct | tatgacacgg | atcctctaca | ccttgggtgga | ctggtttctt | 1200 |
| gttttccgag | acctgggtcaa | cattggcctg | aaagcctttg | ccttctgtgt | ggccacctcg | 1260 |
| ctgaccctgc | tgaccgtggc | ggctggctgg | ctcttctacc | gaccctgtg | ggccctcctc | 1320 |
| attgccggcc | tggcccttgt | gcccacctt | gttgctcgga | cacgggtgcc | agccaaaaag | 1380 |
| ttggagtga | aagaccctgg | cacccgccc | acacctgcgt | gagccctagg | atccaggtcc | 1440 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| tctctcacct | ctgaccacgc | tccatgccag | agcaggagcc | ccggtcaatt | ttggactctg | 1500 |
| cacyccctct | cctcttcagg | ggccagactt | ggcagcatgt | gcaccaggtt | ggtgttcacc | 1560 |
| agctcatgtc | ttccccacat | ctcttcttgc | cagtaagcag | ctttggtggg | cagcagcagc | 1620 |
| tcatgaatgg | caagctgaca | gcttctcctg | ctgtttcctt | cctctcttgg | actgagtggg | 1680 |
| tacggccagc | cactcagccc | attggcagct | gacaacgcag | acacgctcta | cggaggcctg | 1740 |
| ctgataaagg | gctcagcctt | gccgtgtgct | gcttctcatc | actgcacaca | agtgccatgc | 1800 |
| tttgcacca | ccaccaagca | catctgtgat | cctgaagggc | ggccgttagt | cattactgct | 1860 |
| gagtcctggg | tcaccagcag | acacactggg | catggacccc | tcaaagcagg | cacacccaaa | 1920 |
| acacaagtct | gtggctagaa | cctgatgtgg | tgtttaaaag | agaagaaaca | ctgaagatgt | 1980 |
| cctgaggaga | aaagctggac | atatactggg | cttcacactt | atcttatggc | ttggcagaat | 2040 |
| ctttgtagtg | tgtgggatct | ctgaaggccc | tatttaagtt | tttcttcggt | actttgctgc | 2100 |
| ttcatgtgta | ctttcctacc | ccaagaggaa | gttttctgaa | ataagattta | aaaacaaaac | 2160 |
| aaaaaaaaa | cttaatat | cagactgtta | caggaaacac | cctttagtct | gtcagttgaa | 2220 |
| ttcagagcac | tgaaggtgt | taaattgggg | tatgtggttt | gattgataaa | aagttacctc | 2280 |
| tcagtatctt | gtgtcactga | gaagctttac | aatggatgct | tttgaaacaa | gtatcagcaa | 2340 |
| aaggatttgt | tttactctg | ggaggagagg | gtggagaaag | cacttgcttt | catcctctgg | 2400 |
| catcggaac | tcccctatgc | acttgaagat | ggtttaaaag | attaaagaaa | cgattaagag | 2460 |
| aaaaggttgg | aagctttata | ctaaatgggc | tccttcatgg | tgacgccccg | tcaaccacaa | 2520 |
| tcaagaactg | aggcctgagg | ctggttgtac | aatgccacag | cctgcctggc | tgctttcacc | 2580 |
| tggtgagtg | ttcgatgtgg | gcacctgggc | ttcctagggc | tgcttctgag | tggttctttc | 2640 |
| acgtgttggt | ttcatagctt | tagtcttcct | aaataagatc | cacccacacc | taagtcacag | 2700 |
| aatctctaag | ttccccaact | actctcacac | ccttttaaa | ataaagtatg | ttgtaaccag | 2760 |
| gatgtcttaa | atgattcttt | gtgtaccttt | tctgtcatat | tcagaaaccg | ttttgtgcct | 2820 |
| gctgggagta | attccttttag | caattaagta | tttggtagct | gaataagggg | tcagaacttc | 2880 |
| tgaaaccaga | gatctgtaat | catctctatt | ggcctggggt | gcctgtgcta | taaagttagt | 2940 |
| tcttcacatg | aaaaacacag | ccagcccaag | atgacttata | tgggtttagg | attcaatagt | 3000 |
| attcactaac | tgcttattac | atgagcaatt | tcactcaaat | tccaaactct | taaaggatgc | 3060 |
| tttcggaaaa | cacgctgtat | acctagatga | tgactaaatg | caaaatcctt | gggctttggg | 3120 |
| ttttttctag | taaggatttt | aaataactgc | cgacttcaaa | agtgttctta | aaacgaaaga | 3180 |
| taatgttaag | aaaaatttga | aagctttgga | aaaccaaatt | tgtaatatca | ttgtattttt | 3240 |
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<210> 695

<211> 959

<212> DNA

<213> Homo sapiens

<400> 695

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| caaaatgaag | cttctccttt | gggcctgcat | tgtatgtgtt | gcttttgcaa | ggaagagacg | 120 |
| gttccccctt | attggtgagg | atgacaatga | cgatgggtcac | ccacttcata | catctctgaa | 180 |
| tattccttat | ggcatacggg | atttaccacc | tcctctttat | tatcgccag | tgaatacagt | 240 |
| ccccagttac | cctgggaata | cttacactga | cacagggtta | ccttcgtatc | cctggattct | 300 |
| aacttctcct | ggattcccc | atgtctatca | catccgtggt | tttcccttag | ctactcagtt | 360 |
| gaatgttcct | cctctccctc | ctaggggttt | ccggtttgtc | cctccttcaa | ggtttttttc | 420 |
| agcagctgca | gcacccgctg | ccccacctat | tgcagctgag | cctgctgcag | ctgcacctct | 480 |
| tacagccaca | cctgtagcag | ctgagcctgc | tgcaaggggc | cctgttgtag | ctgagcctgs | 540 |
| tggtcagagg | cacctgttgg | agcttgagcc | tgctgcagag | gcacctgttg | cagctgagcc | 600 |
| tgctgcagag | gcacctgttg | gagtggagcc | agctgcagag | gaaccttcac | cagctgagcc | 660 |
| tgctacagcc | aagcctgctg | ccccagaacc | tcacctttct | ccctctcttg | aacaggcaaa | 720 |
| tcagtgaat | tctctagaag | agtaccatgg | gttcatttct | atactgatgc | agaaataagt | 780 |
| gaaatctaca | aaagttttct | ttcttttcca | aagactat | cattctgttg | tattcagagt | 840 |
| attcatctca | ctacattgat | ttgtttgtgg | tagtttttcc | ttggacttaa | tttatattga | 900 |
| aaaaacattg | ataattaaat | aaataaaata | gataatttag | acaaaaaaa | aaaaaaaaa | 959 |

<210> 696

<211> 2227

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n equals a,t,g, or c

<400> 696

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<210> 697
 <211> 2214
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n equals a,t,g, or c

<400> 697

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ctttcggtag ctggagtaac acaggcggcc tcacagcgac ctctccagcg ccttccaagg      240
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<210> 698

<211> 1005

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1004)..(1004)

<223> n equals a,t,g, or c

<400> 698

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<210> 699
 <211> 2988
 <212> DNA
 <213> Homo sapiens

<400> 699
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<210> 700
 <211> 2052
 <212> DNA

<213> Homo sapiens

<400> 700

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<210> 701

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (137)..(137)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (450)..(450)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (465)..(465)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (488)..(488)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (585)..(585)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (619)..(619)
 <223> n equals a,t,g, or c

<400> 701
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<210> 702
 <211> 923
 <212> DNA
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<220>
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 <222> (9)..(9)
 <223> n equals a,t,g, or c

<400> 702
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<210> 703
 <211> 1159
 <212> DNA
 <213> Homo sapiens

<400> 703
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<210> 704

<211> 912

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (275)..(275)

<223> n equals a,t,g, or c

<400> 704

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<210> 705

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3)..(3)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (298)..(298)

<223> n equals a,t,g, or c

<400> 705

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| aactgtgatg | cctaacaaaa | acgttgtgta | taaaagctcc | aaaaccaagc | attagcctaa | 120 |
| attggctata | actgcaactt | aaatcaaaaa | ctatatccaa | ctagatcttc | gttgtggcta | 180 |
| tgcaactttt | tgcttttggt | cctgaagggt | tttactgagg | taacaacctc | ttatctcttg | 240 |
| tccttccctc | aaccacaaaa | gcaaaaccgc | ggaattccgc | accggtacct | gcaggctncc | 300 |
| ttctatagtg | tcacctaata | a | | | | 321 |

<210> 706

<211> 2342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (66)..(66)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2332)..(2332)

<223> n equals a,t,g, or c

<400> 706

| | | | | | | |
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| cacgantcac | ggcagctacc | acggtaaccc | acatcacagc | ctttgaccct | gacagcacgg | 120 |
| ggcagcaggt | gtggcaggat | ctacttcagg | atggacagct | ggactctccc | actggtgatg | 180 |
| gggggtctga | ctgggagatg | gtgggaagag | aggttgtccc | tgtcttggga | ccaggggtgg | 240 |
| gagggcctgt | aataagtagg | ccttgtttcc | atgttaggga | tccctatccc | tggggctgaa | 300 |
| ggggctcctg | tcctgaattc | tcttgtgttt | ctctcaggcc | aaagcacccc | tacgcagaaa | 360 |
| ggagtaggca | ttgctggagc | tgtgtgtgtt | tccagcaagt | tgcgacctcg | aggccagtgc | 420 |
| cgccctggagt | tttcaactgc | ttgggacatg | cccaggatca | tgtttggagc | taaaggccaa | 480 |
| gtccactaca | ggcggatata | aagggtcttt | ggccaggatg | gagatgcagc | acctgccttc | 540 |
| agccactatg | cactgtgccg | atacgcagag | tgggaagaga | ggatctcagc | ttggcagagc | 600 |
| ccggtattgg | atgacagatc | actgcctgcc | tggtacaaat | ctgcgctgtt | caatgaacta | 660 |
| tacttccttg | ctgatggagg | cacagtgtgg | ctggaagtcc | ttgaggactc | cctaccagag | 720 |
| gagctgggca | gaaacatgtg | tcacctccgc | cccaccctac | gggactacgg | tcgatttggc | 780 |
| taccttgagg | gccaggagta | ccgcattgtac | aacacatatg | atgtccactt | ttatgcttcc | 840 |
| tttgccctca | tcattgctctg | gcccaaactt | gagctcagcc | tacagtatga | catggctctg | 900 |
| gccactctca | gggaggacct | gacacggcga | cggtacctga | tgagtggggt | gatggcacct | 960 |
| gtgaaaagga | ggaacgtcat | cccccatgat | attggggacc | cagatgatga | accatggctc | 1020 |
| cgcgtcaatg | catatttaat | ccatgatact | gctgattgga | aggacctgaa | cctgaagttt | 1080 |
| gtgctgcagg | tttatcgagg | ctattacctc | acgggtgatc | aaaacttcct | gaaggacatg | 1140 |
| tggcctgtgt | gtctagctgt | gatggaatct | gaaatgaagt | ttgacaagga | ccatgatgga | 1200 |
| ctcattgaaa | atggaggcta | tgcagaccag | acctatgatg | gatgggtgac | cacaggcccc | 1260 |
| agtgttact | gtggagggct | gtggctggca | gctgtggctg | tgatggtcca | gatggctgct | 1320 |
| ctgtgtgggg | cacaggacat | ccaggataag | ttttcttcta | tcctcagccg | gggccaagaa | 1380 |
| gcctatgaga | gactgtctgt | gaatggccgc | tattacaact | atgacagcag | ctctcgccct | 1440 |
| cagtctcgta | gtgttatgtc | tgaccagtgt | gctggacagt | ggttcctgaa | ggcctgtggc | 1500 |
| taggagaagg | agacactgag | gtgtttccta | cccaacatgt | ggtcctgtgt | ctccaaacta | 1560 |
| tctttgagct | gaacgtccag | gcctttgcag | gaggggccat | gggggctgtg | aatgggatgc | 1620 |
| agccccatgg | tgtccctgat | aaatccagtg | tgcagtctga | tgaagtctgg | gtgggtgtgg | 1680 |
| tctacgggct | ggcagctacc | atgatccaag | agggcctgac | ttgggagggc | ttccagacag | 1740 |
| ctgaaggctg | ctaccgtacc | gtgtgggagc | gcctgggtct | ggccttccag | acccagagg | 1800 |
| catactgcca | gcagcgagtg | ttccgctcac | tggcctacat | gcggccactg | agcatatggg | 1860 |
| ccatgcagct | agccctgcaa | cagcagcagc | acaaaaaggc | ctcctggcca | aaagtcaaac | 1920 |
| agggcacagg | actaaggaca | gggcctatgt | ttggaccaaa | ggaagccatg | gcaaacctga | 1980 |
| gcccagagtg | agccgtctga | actgtgggag | ggaagtgtga | acagcccagc | ctccagcctg | 2040 |
| gcctttcttc | cttccctctc | gaacctctgc | caacctgtag | ccatcaggac | aatcataccc | 2100 |

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cttcccttct ctccacccaa ttgtgccagt aaatgggggt tgaggggtgac ctaggcagca 2160
ttagaatcac ttatttattt ctttctcac ctgttcctg actgcgtgaa atgttcaggg 2220
aggtcagttg atttccccag gtacattcat ggtgtgacag acacatgggt acaataaaaa 2280
gacccagaaa gccaaaaaaa aaaaaaaaaa aaaactcgag ggggggccc gnaccaatt 2340
cg 2342

```

<210> 707

<211> 717

<212> DNA

<213> Homo sapiens

<400> 707

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ggcacgagct agctgccgcc acccgaacag cctgtcctgg tgccccggct ccctgccccg 60
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ctcagtgccg cggtgtgccg ggctgaggct gggctcgaaa ccgaaagtcc cgtccggacc 180
ctccaagtgg agaccctggg ggagccccc gaaccatgtg ccgagcccgc tgcttttgga 240
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ctgaccagag accctctggg tatagaactt ggccaaaagc aggtgattcc aggtctggag 360
cagagtcttc tcgacatgtg tgtgggagag aagcgaaggg caatcattcc ttctcacttg 420
gcctatggaa aacgggggatt tccaccatct gtcccagcgg atgcagtggt gcagtatgac 480
gtggagctga ttgcactaat ccgagccaac tactggctaa agctggtgaa gggcattttg 540
cctctggtag ggatggccat ggtgccagcc ctctggggcc tcattgggta tcacctatac 600
agaaaggcca atagacccaa agtctccaaa aagaagctca aggaagagaa acgaaacaag 660
agcaaaaaga aataataaat aataaatttt aaaaaaaaaa aaaaaaaaaa aaaaaaa 717

```

<210> 708

<211> 713

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (27)..(27)

<223> n equals a,t,g, or c

<400> 708

```

ccgcggaac gctgtcctgg ctgccgnac ccgaacagcc tgtcctggtg ccccggtcc 60
ctgccccgcg ccagtcctatg accctgcgcc cctcactcct cccgtccat ctgctgctgc 120
tgctgtgctc cagtgccgcg gtgtgccggg ctgaggctgg gctcgaaacc gaaagtccc 180
tccggaccct ccaagtggag accctgggtg agccccaga accatgtgcc gagcccgctg 240
cttttgga caagcttcac atacactaca cgggaagctt ggtagatgga cgtattattg 300
acacctccct gaccagagac cctctgggta tagaacttgg ccaaaagcag gtgattccag 360
gtctggagca gagtcttctc gacatgtgtg tgggagagaa gcgaaggcca atcattcctt 420
ctcacttggc ctatggaaaa cggggatttc caccatctgt cccagcggat gcagtgggtg 480
agtatgacgt ggagctgatt gcaactatcc gagccaacta ctggctaaag ctggtgaagg 540
gcattttgcc tctggtaggg atggccatgg tgccaccctc ctgggcctca ttgggtatca 600
cctatacaga aaggccaata gacccaagt ctccaaaag aagctcaagg aagagaaacg 660
aaacaagagc aaaaagaaat aataaataat aaatttttaa aaacttaaaa aaa 713

```

<210> 709

<211> 1165

<212> DNA

<213> Homo sapiens

<400> 709

```

ggcacgagcc ggtatgtggc cccgtctggc tagtcccgcc tagcgcgccc atttcgagcc 60
caagtttcca gctcgggttt ccaggctcag aattttccag gagtaggttc ttgggcagtg 120
gctgtgggag ctggaatggc gcagctggaa ggttactatt tctcgccgc cttgagctgt 180
acctttttag tatcctgcct cctcttctcc gccttcagcc gggcggttgc agagccctac 240
atggacgaga tcttcacact gcctcaggcg cagcgctact gtgagggcca tttctccctt 300
tcccagtggt atcccatgat tactacatta cctggcttgt acctggtgtc aattggagtg 360

```

```

atcaaacctg ccatttggat ctttggatgg tctgaacatg ttgtctgctc cattgggatg 420
ctcagatttg ttaattctct cttcagtggt ggcaacttct atttactata tttgcttttc 480
tgcaaggtag aaccagaaaa caaggctgcc tcaagtagcc agagagtctt gtcaacatta 540
acactagcag tatttccaac actttatctt ttttaacttc tttattatac agaagcagga 600
tctatgtttt ttactctttt tgcgtatttg atgtgtcttt atggaaatca taaaacttca 660
gccttccttg gattttgttg cttcatgttt cggcaaaaca atatcatctg ggctgtcttc 720
tgtgcaggaa atgtcattgc acaaaagtta acggaggctt ggaaaactga gctacaaaag 780
aaggaagaca gacttccacc tattaagga ccatttgcag aattcagaaa aattcttcag 840
tttcttttgg cttattccat gtcctttaaa aacttgagta tgcttttgc tctgacttgg 900
ccctacatcc ttctgggatt tctgttttgt gctttttag tagttaatgg tggatttgtt 960
attggcgatc ggagtagtca tgaagcctgt cttcattttc ctcaactatt ctactttttt 1020
tcatttactc tctttttttc ctttcctcat ctctgtctc aacaaataaa taaataaaca 1080
taaatgcatg cattcataca tacaattgat aaatctaac ttggccaaaa aaaacccaaa 1140
acaaaaataa aaaaaaaaaa aaaaa 1165

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<210> 710

<211> 1160

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (345)..(345)

<223> n equals a,t,g, or c

<400> 710

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gccggtatgt ggcccygtct ggctagtcyy gyctagcgcg cccatttcga gcccaagttt 60
ccagctcggg tttccrggct cagaattttc caggagtrgg ttcttgggca gtggctgtgg 120
gagcwgaat ggcgagctr garggttact rtttctcggc cgcttgagc tgtacctttt 180
tagtrtcctg cctcctcttc tccgccttca gccgggcgyt gcgagagccc tacatggagc 240
agatcttcca cctgcctcag gcgcagcgct actgtgaggg ccatttctcc ctttcccagt 300
gggatcccat gattactaca ttacctggct tgtacctggg gtcanttggg gtgrtcaaac 360
ctgccatttg gatcttttga tggctgaac atgttgtctg ctccattggg atgctcagat 420
ttgttaatct tctcttcagt gttggcaact tctatttact atatttgctt ttctgcaagt 480
acaaccaga aacaaggctg cctcaagtat ccagagagtc ttgtcaacat taacactagc 540
agtatttcca acactttatt tttttaacty cctttattat acagaagcag gatctatgtt 600
ttttacyctt ttgctgtatt tgatgtgtct ttatggaaat cataaaactt cagccttcct 660
tggattttgt ggcttcatgt ttcggcaaac aaatatcctc tgggctgtct tctgtgcagg 720
aaatgtcatt gcacaaaagt taacggaggg ttggaaaact gagctacaaa agaagggaaga 780
cagacttcca cctattaaag gaccatttgc agaattcaga aaaattcttc agtttctttt 840
ggcttattcc atgtccttta aaaacttgag tatgcttttg cttctgactt ggccctacat 900
ccttctggga tttctgtttt gtgcttttgt agtagttaat ggtggaattg ttattggcga 960
tcggagtagt catgaagcct gtcttcattt tctcacta ttctactttt ttccatttac 1020
tctctttttt tcttttctc atctcctgtc tcaacaaata aataaataaa cataaatgca 1080
tgcatcata catacaattg ataatctaa tcttggccaa aaaaaaccca aaacaaaata 1140
aaaaaaaaa aaaaaaactc 1160

```

<210> 711

<211> 979

<212> DNA

<213> Homo sapiens

<400> 711

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ctcatgtggg gagatgagcg tcttttctct gggaccgaag agggaacaag acggagaagg 60
aagaggcggg gctgcgactg tccccagcgt actgccgggc tgccgggtcc ctgctctggg 120
tacttctctg ctttcgggcg tctctgtctag aagctgcagc ttggcctgtc tcacctctac 180
acagaggggc tgctggcgcc tgacggaaaa aggtccacac acccgatggc cggcccgggg 240
tggacgctgc tgctactgct gctgtgctg ctgctgctgg ggtccatggc agggatggg 300
ccacagaaga agttgaacct gtcccataag ggcacggggg agccatgcgg gagacacgag 360
gagtgcgaga gcaactgctg taccatcaac agcctggccc cacacacgct ctgcaccct 420
aagaccatct tctgcagtg cctgccctgg aggaagccca atgggtacag atgctcgac 480

```

```

gactcagagt gccagagcag ctgctgcgtc cgcaacaaca gcccgcagga gttgtgcacg      540
ccccaaagcg tcttctcgca gtgtgtgccc tggcgcaagc ccaacggcga cttctgcagc      600
agccatcarg agtgtcacag ccagtgtctg atccagctga gggagtacag ccccttccgc      660
tgcattcccc ggaccgggat cctggcccag tgcctgcccc tgtgatgtga gctcgaacct      720
gggcgcgagg gaccggcctg ggccctggga tgttcacgca ggaccgcgtt gcgcgggggc      780
tggttccagc ggaagcttcc cttacggttt gtgctgctgt ttctggggct ctgaaaatct      840
gtgggaactg aaaggctgtg accagcctgg tggcgcaag tgtctgtgag aacaaatccc      900
aggcactggg gtgtagcctg attgttaaac atcmataaag gctcctggcc gactgaaaaa      960
aaaaaaaaa aaaactcga

```

<210> 712

<211> 680

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (7)..(7)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (9)..(9)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (15)..(16)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (22)..(22)

<223> n equals a,t,g, or c

<400> 712

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cactcantng aacannagct cnagctccac cgcggtggcg gccgctctag aactagtggg      60
tccccggggc tgcaggaatt cggcagcaga tatttcgctg gaccctagaa aagccaccac      120
gacctgtggg ccatgatgct accccaatgg ctgctgctgc tgttccttct cttcttcttt      180
ctcttcctcc tcaccagggg ctcaactttct ccaacaaaat acaacctttt ggagctcaag      240
gagtcttgca tccggaacca ggactgagag actggctgct gccaacgtgc tccagacaat      300
tgcgagtcgc actgcgcgga gaaggggtcc gagggcagtc tgtgtcaaac gcagggtgtc      360
tttggccagt atagagcgtg tccctgcctg cggaacctga cttgtatata ttcaaagaat      420
gagaaatggc ttagcatcgc ctatggcctg tgtcagaaaa ttggaaggca gaagttggct      480
aagaaaatgt tcttctagtg ctccctcctt cttgctgsct cctcctycty cacctgctct      540
cctccctacc cagagctctg tgktcaccct gttccccaga gcctccacca tgagtggagg      600
gaagtgggga gtgattgaaa taaagagctt tttcaatgaa aaaaaaaaaa aaaaaaaaaa      660
aaactcgagg gggggcccg

```

<210> 713

<211> 1188

<212> DNA

<213> Homo sapiens

<400> 713

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gctcgaactc tccactgtcc ccatttcctg caacagcadc tcagagggct tgaggtggct      60
atcaggcctc ccatcacagc ataaagctcc ttcagggaga gaagagcgaa ggcaccaggr      120
ctggggaaca gcagctccta ctatacctac cctgcccact ctgggtccaac cgtgggcttg      180
gcctgacttt agactggaac cccttagtgc tcctgttcct ggtgtggagc agatccacct      240
accccagggg aaatgccaac tactttgcct tcagacctga tgctcctgtg gttgggcctg      300
ccaagcctgc cctccccagt ggaagaagag ggccgtcttg tgaaaggcct caggctgacc      360

```

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| cttgccagcac | cagcctctga | ggtactgcc | gactgggaag | accctcccag | ccacccaaca | 420 |
| gcgtggggccc | agcccaggac | acatcagccc | gacactccaa | attctatcaa | gagtggcatt | 480 |
| tattctcctt | gtggaggtgc | ggtgctccgg | ggagctgggt | ctattgtgct | taggaaggag | 540 |
| gtctgtccgt | ccgtccgtct | rtmcggcccg | cctggcccca | aatgggggcg | gaagaggggc | 600 |
| acggcccag | taaaaatccc | ggcctattcc | gggtgggaat | atgtacaagg | cggcggggca | 660 |
| caggcggggg | tgggggcggg | cgggccggcg | gccgcagccc | ccacccgagg | gccccgcac | 720 |
| ctcggggcct | actttagtaa | tcagtacaaa | ataggtgcta | cctaaacgtt | ccttctacct | 780 |
| gaattcgcta | agtcggttat | tgtgctgctt | agttatgggg | gcgggagggg | gccccggct | 840 |
| ttccacggcg | gcgggggtga | gggggaagca | ggagaccctg | acggggccac | agccctccag | 900 |
| ctttctcctt | aggtaggtag | acaggagtat | gggggtgggt | gaggtggggg | cgctgtgtgt | 960 |
| tgcgtgtgca | tgcggcacag | gtgggcaggc | cccagcttgg | gagctgtgca | ggcaccacac | 1020 |
| ctggttgtgt | aggggtgttt | gatgtgggca | ctgctgtgca | gagcgggtgg | tcctccttgt | 1080 |
| gggggcagcc | acgcttgctg | ctgggggtga | ggctggccac | accataggct | acagctggca | 1140 |
| cctttctctc | cagccatgst | yttgccccts | gtggacwtgg | cagatgtg | | 1188 |

<210> 714

<211> 1342

<212> DNA

<213> Homo sapiens

<400> 714

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| ggccccccca | ggaggtattc | tgcctttgac | tgcaactctt | gtcgtcttat | gtgggtgttg | 60 |
| aattgatctg | tctctgcagc | cagatccagg | ctcctggaag | aacctgtcc | ggcagctact | 120 |
| ggtcatgcc | ggcacacact | gctgcccagg | aggagctgct | gtttgaatta | tctgtgaatg | 180 |
| ttgggaagag | gaatgccaga | gctgccggct | gaaaattacc | caaccaagag | aaatctgcag | 240 |
| gatggacttt | ctggtcctct | tcttgttcta | cctggcttcg | gtgctgatgg | gtcttgttct | 300 |
| tatctgcgtc | tgtctgaaaa | cccatagctt | gaaaggcctg | gccagggggg | gagcacagat | 360 |
| atcttcctgt | ataattccag | aatgtcttca | gagagccrtg | catggattgc | ttcattacct | 420 |
| tttccatacg | agaaaccaca | ccttcattgt | cctgcacctg | gtcttgcaag | ggatggttta | 480 |
| tactgagtac | acctggggaa | gtatttggct | actgtcagga | gctggagttg | tccttgcaat | 540 |
| acctcttctt | gccctatctg | ctgctagggt | taaacctgtt | ttttttcacc | ctgacttgtg | 600 |
| gaaccaatcc | tggcattata | acaaaagcaa | atgaattatt | atttcttcat | gtttatgaat | 660 |
| ttgatgaagt | gatgtttcca | aagaacgtga | ggtgctctac | ttgtgattta | aggaaccag | 720 |
| ctcgatccaa | gcactgcagt | gtgtgtaact | ggtgtgtgca | ccgtttcgac | catcactgtg | 780 |
| tttgggtgaa | caactgcata | ggggcctgga | acatcaggta | cttcctcacc | tacgtcttga | 840 |
| ccttgacggc | ctcggctgcc | accgtcgcca | ttgtgagcac | cacttttctg | gtccacttgg | 900 |
| tgggtgatgtc | agatttatac | caggagactt | acatcgatga | ccttggacac | ctccatgtta | 960 |
| tggacacggg | ctttcttatt | cagtacctgt | tcctgacttt | tccacggatt | gtcttcatgc | 1020 |
| tgggctttgt | cgtggttctg | agcttcctcc | tgggtggcta | cctgttgttt | gtcctgtatc | 1080 |
| tggcgccac | caaccagact | actaacgagt | ggtacagagg | tgactgggcc | tgggtccagc | 1140 |
| gttgtcccct | tgtggcctgg | cctccgtcag | cagagcccca | agtcaccggg | aacattcaat | 1200 |
| cccatgggct | tcggagcaac | cttcaagaga | tctttctacc | tgcctttcca | tgtcatgaga | 1260 |
| ggaagaaaca | agaatgacaa | gtgtatgact | gcctttgagc | tgtagtcccc | gtttatttac | 1320 |
| acatgtggat | cctcgttttc | ca | | | | 1342 |

<210> 715

<211> 1955

<212> DNA

<213> Homo sapiens

<400> 715

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| ggcacgagtg | ccatccctgt | atttgcctgc | atgctcttcc | ttttctccat | ggctacactg | 60 |
| ttgaggacca | gcttcagtga | ccctggagtg | attcctcggg | cgctaccaga | tgaagcagct | 120 |
| ttcatagaaa | tggagataga | agctaccaat | ggtgcggtgc | cccaggggcca | gcgaccaccg | 180 |
| cctcgatatca | agaatttcca | gataaacaac | cagattgtga | aactgaaata | ctgttacaca | 240 |
| tgcaagatct | tccggcctcc | ccgggcctcc | cattgcagca | tctgtgacaa | ctgtgtggag | 300 |
| cgcttcgacc | atcactgccc | ctgggtgggg | aattgtgtg | gaaagaggaa | ctaccgctac | 360 |
| ttctacctct | tcactcttcc | tctctccctc | ctcacaatct | atgtcttcgc | cttcaacatc | 420 |
| gtctatgtgg | ccctcaaatc | tttgaatatt | ggcttcttgg | agacattgaa | aggaactccc | 480 |
| tggaaactgt | ctagaagtcc | tcatttgctt | ctttacactc | tggctcgtcg | tgggactgac | 540 |
| tggatttcat | actttcctcg | tggctctcaa | ccagacaacc | aatgaaagac | atcaaaggat | 600 |

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catggacagg gaagaatcgc gtccagaatc cctacagcca tggcaatatt gtgaagaact 660
gctgtgaagt gctgtgtggc cccttgcccc ccagtgtgct ggatcgaagg ggtattttgc 720
cactggagga aagtgggaagt cgacctccca gtactcaaga gaccagtagc agcctcttgc 780
cacagagccc agccccaca gaacacctga actcaaatga gatgccggag gacagcagca 840
ctcccgaaga gatgccacct ccagagcccc cagagccacc acaggaggca gctgaagctg 900
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ttctgaactc aaggcagtgg cagaagatgt cagtcacctc tgataactgg aaaaatgggt 1140
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gaggaagcct gagtgtcac ttaaacacta tcccctcaga ctccctgtgt gaggcctgca 1860
gaggccctga atgcacaaat gggaaaccaa ggacagaga ggctctctc tcctctctc 1920
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<210> 716

<211> 1338

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (133)..(133)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (867)..(867)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1338)..(1338)

<223> n equals a,t,g, or c

<400> 716

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gccagcgtgg cnggcctggc ggctcccggg tggtagagaga gcgggtccggg aacgatgaag 180
gcctcgcagt gctgctgctg tctcagccac ctcttggtt cgtcctcct cctgctgttg 240
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yttgggcctc ctgaccctag accaggacat taccgcccgt gccaccgggc cctwaccct 360
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gacggtcagg atgagaagaa gaaaccgaaa gactaggaga tatggagtgt tggacactaa 660
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gggggggtatt taagttaac atatttnaac aacctttaat ttgctgttgc aataaatacc 900
gtatcctttt attatatctt tatatgtata gaagtactct gttaatgggc tcagagatgt 960

```

```

tggggataaa gtatactgta ataatttatac tgtttgaaaa ttactataaa acggtgtttt 1020
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ttaatgctaa ttatttttgc tgatgtcata tgtaaagag ctataaattc caacaaccaa 1140
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gaaaagaagc caaatttatt actttgtgtt ggggttttta aaatattaag aaatgtctaa 1260
gttattgttt gcaaaacaat aaatatgatt ttaaatcttc ttaaaaaaaa aaaaaaaaaa 1320
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1338

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<210> 717

<211> 802

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (337)..(337)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (359)..(359)

<223> n equals a,t,g, or c

<400> 717

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ggattggcag aagcctgtac tcctcgtgaa gtcaacttgc tgaaagggat cataggtctc 180
atgagcagac tgtcaccgga tgagatccta ggcttctga gcctccaagt actgcatgaa 240
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ccactcccca agagggaaga acacgtggaa yttcctngaa atgcgsetac atgggtgrtng 360
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ctgccaytac tgtaacttgg aactggacat cagggatgat ccctgctgtt ctttctagt 480
agcctgctcc atctcagctt agccttcaca aggcctccat ctcccaggca ttctaacctc 540
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aggaatggca cctgggtgcc cagaggcatg gccagaaggt gtctgtgggg gccatgcctt 660
agggggatgc acccagggcg gctgagagag caactgcagg agtttcccct aaaatctctc 720
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aaaaaaaaa aaaaaactcg ag
802

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<210> 718

<211> 1251

<212> DNA

<213> Homo sapiens

<400> 718

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gcaccgtgga gctgcaggag atgccccttg tccaggagtt gccactgctg aagcttgggg 60
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agctcattgc tccactggag ggctacactc ggagtcgcca gatcgttttt atcctgttca 180
ggaccgtggt tcttcgcctc gcctccctgg tggctcgtct cttctctctc tggaatcaga 240
tcacttgtgg gggcgactcc gaggtgagg actgcaaaac ctgtggctac aattacaac 300
aacttccgtg ctgggagact gtccctggcc aggaatgta caaacttctg ctctttgatc 360
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tctccacctg ctccccgget gcccgacct tccgggctc cgcgggcaat ttctttttcc 660
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tccctgagtc tatttccagc ctccctgaga ccaccagaa ttctctcttc ttccctggga 840
cccaggcttt tgctgtgcc cttctgtctga tctccagcat cctgatggcg tacactgtgg 900
ctctggctaa ctctacgga cgcctcatct ctgagctcaa acgtcagaga sagacggagg 960

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```

cgcagaataa agtcttcctg gcacggcgcg ctgtggcgct gacctccacc aaaccggctc 1020
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caacatctgt aaactaggag aactggagaa gactccacgc ccttcagct ttggatatcg 1140
gagatttcca gggcccctcg ccgccacgtc cctgactctc gggatgatctt ccttgatca 1200
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<210> 719

<211> 517

<212> DNA

<213> Homo sapiens

<400> 719

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ggcgtacact gtggctctgg ctaactccta cggacgcctc atctctgagc tcaaactgca 180
gagasagacg gaggcgacga ataaagtctt cctggcacgg cgcgctgtgg cgctgacctc 240
caccaaaccg gctctttgac ccccgacgac cactgcccgc ttccagaccc caggccccatt 300
gtaagcctag gtcacaacat ctgtaaacta ggagaactgg agaagactcc acgccccttc 360
agcttttgta tctggagatt tccagggccc ctcgcccga cgtccctgac tctcggtga 420
tcttccttgt atcaataaat acagccgagg ttgctgaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aactcga 517

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<210> 720

<211> 1441

<212> DNA

<213> Homo sapiens

<400> 720

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gcttgtggcc ccagccacag ccgccaactgc ctaccggccg gactggaacc gtctgagcgg 180
cctaaccgcg gcccggttag agacctgcgg gggatgacag ctgaaccgcc taaaggaggt 240
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gtctgtacct cgagtagact gaggtcatgg tctctgatgc tctggttcct ccccagggtga 480
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gggatgggca cctggggagaa tctccacgta acttcagaaa ggggtggcag atggttttca 600
actgacaagt tgaattgatt ggtagtggct cccagaggat tctgaggtgg tctccatggt 660
gggtgggcaa gagagattga ctagtatga ctgccacaga atggagagga gggcccttta 720
cttctttgaa ccctaatttt ctcacgtata agcggagacc ctggcccctc ccgggcacag 780
agtaagctct gagcaaagga ggcaatgctg ttcccatcag taaggctgcg gaaaccacca 840
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atgggggttg ggaggttctc ccaacccac ttcttctct cccagctcc actaaattcc 1380
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c 1441

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<210> 721

<211> 2674

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2607)..(2607)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2611)..(2611)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2621)..(2621)
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 <221> misc_feature
 <222> (2634)..(2634)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2650)..(2650)
 <223> n equals a,t,g, or c

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 <221> misc_feature
 <222> (2660)..(2660)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2669)..(2669)
 <223> n equals a,t,g, or c

<400> 721
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 cagaggaaaa ggttggaatc ctatgtgacc tgttcttaga gcaagacaat caccatctga 180
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 gcaaaaggat gggaaatgcc tgcattcccc tgaaaagaat tgcttatttc ctatgtctct 300
 tatctgcgct ttgctgact gaggggaaga aaccagcgaa gccaaaatgc cctgccgtgt 360
 gtacttgtac caaagataat gctttatgtg agaatgccag atccattcca cgcaccgttc 420
 ctctgatgt tatctatta tcttttgtga gatctgggtt tactgaaatc tcagaaggga 480
 gttttttatt cagccatcg ctgcagctct tgttattcac atcgaactcc tttgatgtga 540
 tcagtgatga tgcttttatt ggtcttccac atctagagta tttattcata gaaaacaaca 600
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 aatggcttgg scacaccaat gcaactgttg aagacatcta ctgcgaaggc ccccagaat 840
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 ttcttaacat ggaggatgtg tacgcagtga agcacttctc agtgaaaggg gacgtgtaca 1560
 ttgtcttgac aagattcatt ggtgattcca aagtcatgaa atggggaggc tcctcgttcc 1620

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|------|
| aggatattca | gaggatgcc | tcgcgaggat | ccatgggtgtt | ccagcctctt | caaataaata | 1680 |
| attaccaata | tgcaattctt | ggaagtgatt | actcctttac | tcaagtgtat | aactgggatg | 1740 |
| cagagaaagc | caaatttggt | aaatttcagg | aattaaatgt | tcaggcacca | agatcattca | 1800 |
| cacatgtgtc | cattaataag | cgtaattttc | tttttgcttc | cagttttaag | ggaaatacac | 1860 |
| agattttacaa | acatgtcata | gttgacttaa | gcgcatgaga | caccaaattc | tgtggctgcc | 1920 |
| atcagaaatt | ttctacagta | catgaccggg | atgaactcaa | tgcatgatga | ctcttcttat | 1980 |
| cacacttgca | aatgaatgcc | tttcaaacat | tgagactgct | agaaccaagc | actaccagta | 2040 |
| tctccatcct | taactgtcca | gtccagtgtat | gtgggaagtt | accttttata | agacaaaatt | 2100 |
| taattgtgta | actgttcttt | gcagtgaaga | tgtgtaaata | agcgtttaat | ggatctgtt | 2160 |
| actccaaaaa | gaaatattaa | tatgtacttt | tccatttatt | tattcatgtg | tacagaaaca | 2220 |
| actgccaaat | aaaatgttta | cattttcttt | cataaaaaaa | aaaaaaaaaa | aactcgaggg | 2280 |
| ggggcccggt | acccaattcg | ccctatagtg | agtcgtatta | caattcactg | gccgtcgttt | 2340 |
| tacaacgtcg | tgactgggaa | aaccctggcg | ttaccaact | taatcgcctt | gcagcacatc | 2400 |
| cccctttcgc | cagctggcgt | aatagcgaag | aggccgcacc | gatcgcctt | cccaacagtt | 2460 |
| gcgcagcctg | aatggcgaat | ggcaaatgt | aacggttaat | attttggtta | aattccgcgt | 2520 |
| taaattttgt | taaatcagct | cattttttaa | cccaataggg | cgaaattcgg | caaaaatccc | 2580 |
| ttattaatca | aaagaaatag | aaccganaat | nggggttgaa | ntgttggttc | caantttggg | 2640 |
| aaacaaaaan | ttccacttan | tttaaaagna | aacg | | | 2674 |

<210> 722

<211> 2207

<212> DNA

<213> Homo sapiens

<400> 722

| | | | | | | |
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| ggaaaagggt | ggactcctat | gtgacctgtt | cttagagcaa | gacaatcacc | atctgaattc | 120 |
| cagaagccct | gttcatgggt | ggggatattt | tctcgactgc | atggaatcag | aaagaagcaa | 180 |
| aaggatggga | aatgcctgca | ttcccttgaa | aagaattgct | tatttcttat | gtctcttatc | 240 |
| tgcgcttttg | ctgactgagg | ggaagaaacc | agcgaaccaa | aatgccctgc | cgtgtgtact | 300 |
| tgtaccaaag | ataatgcttt | atgtgagaat | gccagatcca | ttccacgcac | cgttctctct | 360 |
| gatgttatct | cattatcctt | tgtgagatct | ggttttactg | aaatctcaga | agggagtttt | 420 |
| ttattcacgc | catcgctgca | gctcttggtt | ttcacatcga | actcctttga | tgtgatcagt | 480 |
| gatgatgctt | ttattggctt | ttcacatcta | gagtatttat | tcatagaaaa | caacaacatc | 540 |
| aagtcaattt | caagacatac | tttccgggga | ctaaagtcac | taattcactt | gagccttgca | 600 |
| aacaacaatc | tccagacact | cccaaaagat | attttcaaag | gcctggattc | tttaacaaat | 660 |
| gtggacctga | ggggtaatc | atttaattgt | gactgtaaac | tgaatggct | agtggaatgg | 720 |
| cttggccaca | ccaatgcaac | tgttgaaagc | atctactgcg | aaggccccc | agaatacaag | 780 |
| aagcgcaaaa | tcaatagtct | ctcctcgaag | gttttcgatt | gcacatttac | agaatttgca | 840 |
| aagtctcaag | acctgcctta | tcaatcattg | tccatagaca | ctttttctta | tttgaatgat | 900 |
| gagtatgtag | tcacgctca | gccttttact | ggaaaatgca | ttttccttga | atgggaccat | 960 |
| gtggaaaaga | ccttccggaa | ttatgacaac | attacaggca | catccactgt | agtatgcaag | 1020 |
| cctatagtca | ttgaaactca | gctctatgtt | attgtggccc | agctgttttg | tggctctcac | 1080 |
| atctataagc | gagacagttt | tgcaataaaa | ttcataaaaa | tccaggatat | tgaattcttc | 1140 |
| aaaatccgaa | aacccaatga | cattgaaaca | ttcaagattg | aaaacaactg | gtactttgtt | 1200 |
| gttctgtgaca | gttcaaaaagc | tggttttact | accatttaca | aatggaacgg | aaacggattc | 1260 |
| tactcccatc | aatccttaca | cgcgtggtac | agggacactg | atgtggaata | tctagaaata | 1320 |
| gtcagaacac | ctcagacact | cagaacgcct | catttaattc | tgtctagtag | ttccaacagt | 1380 |
| cctgtaattt | atcagtggaa | caaagcaaca | caattattca | ctaaccaaac | tgacattcct | 1440 |
| aacatggagg | atgtgtacgc | agtgaagcac | ttctcagtga | aaggggacgt | gtacatttgc | 1500 |
| ttgacaagat | tcattgggtga | ttccaaagtc | atgaaatggg | gaggctcctc | gttccaggat | 1560 |
| attcagagga | tgccatcgcg | aggatccatg | gtgttccagc | ctcttcaaat | aaataattac | 1620 |
| caatatgcaa | ttcttggaag | tgattactcc | tttactcaag | tgtataactg | ggatgcagag | 1680 |
| aaagccaaat | ttgtgaaatt | tcaggaatta | aatgttcagg | caccaagatc | attcacacat | 1740 |
| gtgtccatta | ataagcgtaa | ttttcttttt | gcttccagtt | ttaagggaaa | tacacagatt | 1800 |
| tacaaacatg | tcatagtgtga | cttaagcgca | tgagacacca | aattctgtgg | ctgccatcag | 1860 |
| aaattttcta | cagtacatga | cccggatgaa | ctcaatgcat | gatgactctt | cttatcacac | 1920 |
| ttgcaaatga | atgcctttca | aacattgaga | ctgctagaac | caagcactac | cagtatctcc | 1980 |
| atccttaact | gtccagtcga | gtgatgtggg | aagttacctt | ttataagaca | aaatttaatt | 2040 |
| gtgtaactgt | tctttgcagt | gaagatgtgt | aaataagcgt | ttaatgggat | ctgttactcc | 2100 |
| aaaaagaaat | attaatatgt | acttttccat | ttattttatc | atgtgtacag | aaacaactgc | 2160 |

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2207

<210> 723

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (315)..(315)

<223> n equals a,t,g, or c

<400> 723

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| gccagaggcc | gcggaggggc | gaagaccccg | agtaactctc | ccttccaccc | caaccggat | 120 |
| cgccagccct | cgagagctct | gtgctccacg | ccgaggatgc | accgtctctg | gattgggtccg | 180 |
| gccttcttcc | taatgacatc | gctcagcgtc | tctggagccg | tcatcccgcg | gaatgggggc | 240 |
| ccaggggggtg | tcagytcggg | gccttgccctc | ttgcagctac | tctgtggtca | ggccgggtcc | 300 |
| tccaccatca | ggaanatccc | atcctgagct | ctgtctcctg | cccctcctgc | tgtgggatgc | 360 |
| tgagcacaga | gcccacagcc | catctgcctc | ttcacctccc | tgaatccgtg | tccatctgca | 420 |
| ataaacgaca | gcctcggctg | cctcgtgctg | aaaaaaaaaa | aaaaaaaaaa | | 470 |

<210> 724

<211> 1186

<212> DNA

<213> Homo sapiens

<400> 724

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
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| ggtaggggggt | ttgtccctgg | aattctggga | caactggctg | ggtttgagga | gagaagccag | 120 |
| tacctacctg | gctgcaggat | gaagctggcc | agtggcttct | tggttttgtg | gctcagcctt | 180 |
| gggggtggcc | tggctcagag | cgacacgagc | cctgacacgg | aggagtccta | ttcagactgg | 240 |
| ggccttcggc | acctccgggg | aagctttgaa | tccgtcaata | gctacttcga | ttcttttctg | 300 |
| gagctgctgg | gaggggaagaa | tggagtctgt | cagtacaggt | gccgatatgg | aaaggcacca | 360 |
| atgccacagac | ctggctacaa | gccccaaagag | cccaatggct | gcggctccta | tttctgggt | 420 |
| ctcaaggtag | cagaaagtat | ggacttgggc | attccagcaa | tgacaaagt | ctgcaaccag | 480 |
| ctggatgtct | gttatgacac | ttgcggtgcc | aacaaatata | gctgtgatgc | aaaattccga | 540 |
| tgggtgtctcc | amtcgatctg | ctctgacctt | aagcggagtc | tgggctttgt | ctccaaagt | 600 |
| gaagcctgtg | atccctgggt | tgacactgtg | ttcaacaccg | tgtggacctt | gggctgccgc | 660 |
| ccctttatga | atagtcagcg | ggcagcttgc | atctgtgcag | aggaggagaa | ggaagagtta | 720 |
| tgaggaagaa | gtgattcctt | cctggttttg | agtgcacca | cagctgtcag | ccttcaagat | 780 |
| gtcaagtctt | cgartcagcg | tgactcattc | gttcttccaa | cagtttggac | accacaaagc | 840 |
| aggagaaagg | gaacattttt | ctacagctgg | aaagtgagtc | ctatcctttg | aggaaatttg | 900 |
| aaaaaagaca | tggagtgggt | tgaaagctac | tcttcattta | agactgctct | ccccaaccaa | 960 |
| gacacatttg | cctggaaatt | cagttcttag | cttaaagact | aaaatgcaag | caaaccctgc | 1020 |
| aattcctgga | cctgatagtt | atattcatga | gtgaaattgt | ggggagtcca | gccatttggg | 1080 |
| aggcaatgac | tttctgctgg | cccatgtttc | agttgccagt | aagcttctca | catttaataa | 1140 |
| agtgtacttt | ttagaacatt | tggaaaaaaa | aaaaaaaaaa | actcga | | 1186 |

<210> 725

<211> 470

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (444)..(444)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (458)..(458)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (469)..(470)

<223> n equals a,t,g, or c

<400> 725

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctgcaggaat | tcggcacgag | cggcacgagt | gccaatacaa | ctgctgtcgc | cctcaatgcg | 60 |
| ccagcccacc | ctgcaaggct | cctaccacct | ggaccgcgag | tagccctcct | actgctccgg | 120 |
| gggagctgca | gtctctgttg | ctgccaccaa | ccgcataagg | cgagctgcaa | agccatgcc | 180 |
| tctgcaggct | ccaatgtacc | atagatgact | cctcctcttc | ctcctcctcc | agcctggctt | 240 |
| ggagcagcta | gatgggcaaa | gctagaaaag | cctaaaacgg | gatgcaggga | gtggtagcat | 300 |
| tagagcctca | ccttgctcac | ctggccactg | ggtggcaggg | accagtttca | gcaaaggcac | 360 |
| tcacaccac | cctccaaagt | ccagcctctm | mttctggcaa | aagctggcca | ggaactgggg | 420 |
| cccagggtga | gtgggtgtgc | tttnccaaaa | accagggnag | gttatagcnn | | 470 |

<210> 726

<211> 1821

<212> DNA

<213> Homo sapiens

<400> 726

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| ggaattcggc | acgagcgtgg | atccaagatg | gcgacggcga | tggattgggt | gccgtggtct | 60 |
| ttactgcttt | tctccctgat | gtgtgaaaca | agcgccttct | atgtgcctgg | ggtcgcgcct | 120 |
| atcaacttcc | accagaacga | tcccgtagaa | atcaaggctg | tgaagctcac | cagctctcga | 180 |
| accagcttac | cttatgaata | ctattcactg | cccttctgcc | agcccagcaa | gataacctac | 240 |
| aaggcagaga | atctgggaga | ggtgctgaga | ggggaccgga | ttgtcaacac | ccctttccag | 300 |
| gttctcatga | acagcgagaa | gaagtgtgaa | gttctgtgca | gccagtccaa | caagccagtg | 360 |
| accctgacag | tggagcagag | ccgactcgtg | gccgagcggg | tcacagaaga | ctactacgtc | 420 |
| cacctcattg | ctgacaacct | gcctgtggcc | acccggctgg | agctctactc | caaccgagac | 480 |
| agcgatgaca | agaagaagga | aagtgatatc | aaatgggcct | ctcgttgga | cacttactga | 540 |
| ccatgagtga | cgtccagatc | cactgggttt | ctatcattaa | ctccgttggt | gtggctctct | 600 |
| tcctgtcagg | tatcctgagc | atgattatca | ttcggaccct | ccggaaggac | attgccaact | 660 |
| acaacaagga | ggatgacatt | gaagacacca | tggaggagt | tgggtggaag | ttggtgcacg | 720 |
| gcgacgtctt | caggccccc | ccagtacccc | atgatcctca | gctccctgct | gggctcaggc | 780 |
| attcagctgt | tctgtatgat | cctcatcgtc | atctttgtag | ccatgcttgg | gatgctgtcg | 840 |
| ccctccagcc | ggggagctct | catgaccaca | gcctgcttcc | tcttcatgtt | catgggggtg | 900 |
| tttgccggat | tttctgctgg | ccgtctgtac | cgcactttaa | aaggccatcg | gtggaagaaa | 960 |
| ggagccttct | gtacggcaac | tctgtaccct | ggtgtggttt | ttggcatctg | cttcgtattg | 1020 |
| aattgcttca | tttggggaaa | gcactcatca | ggagcgggtg | cctttccac | catggtggct | 1080 |
| ctgctgtgca | tgtggttcgg | gatctccctg | cccctcgtct | acttgggcta | ctacttcggc | 1140 |
| ttccgaaagc | agccatatga | caaccctgtg | cgcaccaacc | agattccccg | gcagatcccc | 1200 |
| gagcagcggg | ggtacatgaa | ccgatttgtg | ggcatcctca | tggctgggat | cttgccttcg | 1260 |
| gcgccatgtt | catcgagctc | ttcttcatct | tcagtgtcat | ctgggagaat | cagttctatt | 1320 |
| acctcttttg | cttctctgtt | cttgttttca | tcctcctggt | ggtatcctgt | tcacaaatca | 1380 |
| gcacgtcat | ggtgtacttc | cagctgtgtg | cagaggatta | ccgctggtgg | tggagaaatt | 1440 |
| tcctagtctc | cgggggctct | gcattctacg | tcctggttta | tgccatcttt | tatttcgtta | 1500 |
| acaagtgact | gcagcgccaa | gcggcatcca | ccaagcatca | agttggagaa | aagggaaccc | 1560 |
| aagcagtaga | gagcgatatt | ggagtctttt | gttcattcaa | atcttggatt | tttttttttc | 1620 |
| cctaagagat | tctcttttta | gggggaatgg | gaaacggaca | cctcataaag | ggttcaaaga | 1680 |
| tcataaattt | ttctgacttt | ttaaatcatt | atcattatta | tttttaatta | aaaaaatgcc | 1740 |
| tgtatgcctt | tttttggtcg | gattgtaaat | aaatatacca | ttgtcctaca | aaaaaaaaaa | 1800 |
| aaaaaaaactc | gagggggggc | c | | | | 1821 |

<210> 727

<211> 1094

<212> DNA

<213> Homo sapiens

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<400> 727
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tgcttgggat gctgtcgccc tccagccggg gagctctcat gaccacagcc tgcttccctc      180
tcatgttcat gggggtgttt ggcggatttt ctgctggccg tctgtaccgc actttaaaag      240
gccatcggtg gaagaaagga gccttctgta cggcaactct gtaccctggg gtggtttttg      300
gcattctgctt cgtattgaat tgcttcattt ggggaaagca ctcatcagga gcggtgccct      360
ttcccaccat ggtggctctg ctgtgcatgt ggttcgggat ctccctgccc ctgctctact      420
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gggagaatca gttctattac ctctttggct tcctgttctt tgttttcatc atcctggtgg      660
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gctggtgggt gagaaatttc ctagtctccg ggggctctgc attctacgct ctggtttatg      780
ccatctttta tttcgttaac aagctggaca tcgtggagtt catccctct ctctctact      840
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atgcagccta catgtttgtt cgcaagatct atgctgctgt gaagatagac tgattggagt      960
ggaccacggc caagcctgct ccgtcctcgg acaggaagcc accctgcgtg ggggactgca     1020
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<210> 728
<211> 1042
<212> DNA
<213> Homo sapiens

<220>
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<222> (11)..(11)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (15)..(15)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (941)..(941)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1016)..(1016)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1022)..(1022)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1028)..(1028)
<223> n equals a,t,g, or c

<400> 728
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ggccagaaaa cttttgggag gaccttatca tgccttcac tgtatccatg gcaatcgggc      180
tggtacttgg aggatttatt tgggctgtgt tcatttgtct gtctcgaaga agaagagcca      240

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gtgctcccat ctcacagtgg agttcaagca ggagatctag gtcttcttac acccacggcc 300
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ccagtctcac cttccagcga caagcttccc tggacaacgc aaattccttt ccaagaaaaat 420
caagtttcag agcttctact ttccatccct ttctgcaatg tccaccactt cctgtggaaa 480
ctgagagtca gctggtgact ctcccttctt ccaatatctc tcccaccatc agcacttccc 540
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cgccccacc tgcctatgag tccatcatca aggcattccc agattcctga gtaggggtggc 660
ttttggtttt tgtttctttc ttgtcttgtc ttttattgaa aggaaatcaa aaataggcta 720
aacagaattt tgagggcatg gcccaaataa ctcatgagtt ccaagttgaa acatggttgt 780
gcaagttgga cattacaatg taaaacacat ttcttcaaaa cacgttttcc ctttggtttc 840
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gcttattaaa aatagtgatt ctaatgtaag aatcagctaa ngatgcatta tatatatattt 960
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cnttaaangg ggggaaaaaa aa 1042

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<210> 729

<211> 1556

<212> DNA

<213> Homo sapiens

<400> 729

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ttcacatttc atacactcac aatatttagg aaatagtcac tttgactgtc ttataactgg 180
gataaggggtg cagcaacaat tctgccagat ggttaaatgc cccagaggat ttctgctctt 240
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accatactct ttgctgattt ttcatgttag acattaagga tgacatgcaa gtaaaaaaaa 360
aaaaaaaaaa aaaagtagcc ctgataccaa gttaattatc ccttgaaacc ttacttggtc 420
gctaaatytc tttgttgaaa accaacttat aacaaattgg ttatccgggt agcttttttc 480
cctttttctt ccattttctt cttgctccct ctttctctta ctttttcctt ttggcatggt 540
taattagaga acattttcta taagcattat taagaataat tgtccttaag gaatgatgga 600
taatataagg gaaatgaaaa taataaagaa aatgctacat ggaatctctt attcttgaac 660
catgttcaga cactattagc tgtgaccact gcaataggaa atgaaaaaga gggactttt 720
tcactgaaaa tcccactggt caaagaaaca aagaaacggc cacataaact aaatattcac 780
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gcttggtttt aggtcaaatg aattggattt ttctctgtg cttttctaac aatgtaacga 1320
caacgggtgaa gaaaaggtaa atcatcatgt tagtaaatcc aaggattttg cctccaggaa 1380
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aaatgaaaca tccaatgaca ccaaaagagt tcagtttctt gtgcttgagt cccacacttc 1500
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<210> 730

<211> 615

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (18)..(18)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (20)..(20)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (584)..(584)

<223> n equals a,t,g, or c

<400> 730

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|--|-----|
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| aaagactcgg ccttcaagga gcctaaatgt gtagaaaagg actaaggcaa aacaataact | 120 |
| tttttgagct cttgccatgt gtgaagcact ttatacacct gtaaggtagg taacgttggt | 180 |
| cttattaaac atgaagaaaa tgagactttg tgagaagcaa tacagtatag aagttaagaa | 240 |
| tatggactct aaagctagat ttcagagggtt tgaagtagct ctgctactta ctggctgtgt | 300 |
| gactttgagc agattactta acctgtctgt gcctatgttt actttttattg ttgtaaaaag | 360 |
| atatgcaaca taaaatattc catttcaacc gtttttacgt gtatacttca ctgacattag | 420 |
| ttgcattcac tatgttgtgc aaacgtaggg tcgctatgaa gattaaatga gttaattcat | 480 |
| ataaagccct cagaagagtg tctggcacat ggtgagtatt ggctgtactg tggctcgatgt | 540 |
| cattgttaga gagcttttagt gatttgctta agacagaaaag gtanactggg gtgcgggtggg | 600 |
| ctcacgccct ggtaa | 615 |

<210> 731

<211> 1125

<212> DNA

<213> Homo sapiens

<400> 731

| | |
|--|------|
| gtaccgggtcc ggaattcccg ggtcgaccca cgcgtccgcc cacgcgtccg ctccccagta | 60 |
| gctgggatga ccggcactcg ccaccaagcc tagctaattt tttttgtatt ttgactagag | 120 |
| atgggggtttc accatgttag tcaagctgct cttgttttgt tgtgtgtgtt gttgtgtgtt | 180 |
| ttgttgtttg atactgagtc tcgctccagc ctggcgacag agcgagactc catctcaaaa | 240 |
| aaaaaaaaa aaaaaaacaa aaaaaaaaa acgaaaaagaaa caaaaaacgt tgttttaatt | 300 |
| ttaattaact caaatagctt catgtggcta gctgccgccc tgtagaacag cacagttcta | 360 |
| gaactttcga gaccttctcc ctgttatcca cacttacttt acagagtaga ctgagcactt | 420 |
| cgagtcccct gtccttcagg ccaggccaaa tcttgggtccc cagagcccag tgtggcagag | 480 |
| gccatcgaaa actgaccac gcactctagc ccagccctgg atttacagcc aagcrctgta | 540 |
| tagggatggg tgactctttt gtttttgttt ttgttttgag ttgggtctct cgtctcttca | 600 |
| cccaggctgg agtgcagtgg cataatcatg gctcgtctgta gccttgacct cctgggctcg | 660 |
| ggccatcctc ctgcctcagc ctctcgaga actggggctg cgggcacatg ccaccacacc | 720 |
| cagctatttt ttattttatt tttttgtaga gtcagggtct cactgtgttg ccagactgg | 780 |
| tcttgaactc ctggcctcaa gctatcttcc tgccctcgcc tcccaaagtg ctgggattac | 840 |
| aggtgtgagc cactgtgcct ggcctcttgg tgactctttg caagggcatt gctggctggc | 900 |
| tgatatggcc tgcagcctct gcctgtaacc atcagagcga tactctcatt atcggaagg | 960 |
| tgggacccmc cctggcccaa gagacagggc ctgttattec actgtatgga ggagaagctg | 1020 |
| aggcttargg aaggcagatg acttggcaag gtcataaaga cagcaagctg caggaccagc | 1080 |
| tcattctaag gcatgaaccc cctgggggcc caacttacca atgaa | 1125 |

<210> 732

<211> 2297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (481)..(481)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1408)..(1408)

<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2248)..(2248)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2277)..(2277)
<223> n equals a,t,g, or c

<400> 732
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taaggatgta gggtagggcc gggggttaact ccgggggktg cggggygcag cggcagcggg 300
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
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<210> 733
<211> 482
<212> DNA
<213> Homo sapiens

<220>
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<222> (455)..(455)
<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (457)..(457)
 <223> n equals a,t,g, or c

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 gcctkgttca gacttaccag gctatgctcc cagcccagcc ctactaggg acccccgart 180
 gcatctctct cctctccarg cctctgtttc tccatctgtg caaccacagt gttggacatg 240
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 taagaccggg tcacgggtgac cctgcaggag tggaatgacc ctcttgaccr tgaccttgag 360
 gccagctca tctaccggca cctgctgggc gtggaggcca tgctgtggga raggcaccgg 420
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 at 482

<210> 734
 <211> 1081
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (35)..(35)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1077)..(1077)
 <223> n equals a,t,g, or c

<400> 734
 tgcacctcnc actattnngg ttacaaaagc tgganctcca ccgcggtggc ggccgctcta 60
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 ctggaacagc catttggtg gtggagtgc agcacggcg gccaatcgcc gagtcagagg 180
 gccaggagg ggcgggcat tcgcccggc gccctgtc cgtggctggt tttctccgg 240
 ggcgcctcgg gcggaacctg gagataatgg gcagcacctg ggggagccct ggctgggtgc 300
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 cgcgcgtctt ctccctccagg tggggcagg gtttcgggct ggtggagcat gtgctgggac 480
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 gcattgtttg tatcaccacc tatgctatca acgtgagcct gatgtggctc agtttccgga 720
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 aatggacca atgtgccaca cgctcgctct tttttacacc cagtgcctct gactctgtcc 960
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 g 1081

<210> 735
 <211> 720
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<400> 735
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 ggagccctgg ctgggtgcgg ctcgctcttt gcctgacggg cttagtgtct tcgctctacg 120
 cgctgcacgt gaaggcggcg cgcgcccggg accgggatta ccgcgcgctc tgcgacgtgg 180
 gcaccgccat cagctgttcg cgcgtcttct cctccagggt gcctgsgggac acgctggggc 240
 tctgtmctga tgctgtgag ctccctgggt tctctcgctg gttctgtcta cctggsctgg 300
 atcctgttct tcgtgtctta tgawtttctg cattgtttgt aatcaccacc tatgctatca 360
 acgtgacctg atgtggctca gtttccggaa ggtccaagaa ccccagggca aggctaagag 420
 gbactgagcc ctcaacccaa gccaggctga cctcatctgc tttgctttgg catgtgagcc 480
 ttgcctaagg gggcatactt gggctcctag aaggccctag atgtggggct tctagattac 540
 cccctcctcc tgccataccc gcacatgaca atggaccaa tgtgccacac gctcgctctt 600
 ttttacaccc agtgccctct actctgtccc catgggctgg tctccaaagc tctttccatt 660
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<210> 736
 <211> 1932
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (293)..(293)
 <223> n equals a,t,g, or c

<400> 736
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 gggagggcca tgattttccct cccggggccc ctgggtgacca acttgctgcg gtttttgttc 180
 ctggggctga gtgcctcgc gccccctcg cgggcccagc tgcaactgca cttgcccgc 240
 aaccggttgc aggcggtgga gggaggggaa gtggtgcttc cagcgtggta cancttgac 300
 ggggaggtgt cttcatccca gccatgggag gtgccctttg tgatgtggtt cttcaaacag 360
 aaagaaaagg aggatcagggt gttgtcctac atcaatgggg tcacaacaag caaacctgga 420
 gtatccttgg tctactccat gccctcccgc aacctgtccc tgcggctgga gggctctccag 480
 gagaaagact ctggccccta cagctgtctc gtgaatgtgc aagacaaaca aggcataatct 540
 agggggccaca gcatcaaac cttagaactc aatgtactgg ttctccagc tctccatcc 600
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 aggagtaagc ccgtgtcca ataccagtgg gatcggcagc ttccatcctt ccagactttc 720
 tttgcaccag cattagatgt catccgtggg tctttaagcc tcaccaacct ttcgtcttcc 780
 atggctggag tctatgtctg caaggcccac aatgaggtgg gcaactgcaa tgtaatgtga 840
 cgtggaagt gagcacaggg cctggagctg cagtgggtgc tggagctgtt gtgggtaccc 900
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 ctaaaggatt tggggtctct ccttctata rgggtcacct ctagcacaga ggcctgagtc 1380
 atgggaaaga gtcacactcc tgacccttag tactctgccc ccacctctct ttactgtggg 1440
 aaaaccatct cagtaagacc taagtgtcca ggagacagaa ggagaagagg aagtggatct 1500

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ggaattggga ggagcctcca cccaccctcg actcctcctt atgaagccag ctgctgaaat 1560
tagctactca ccaagagtga ggggcagaga cttccagtca ctgagtctcc caggcccccct 1620
tgatctgtac cccaccctca tctaaccacca ccttggctc cactccagc tccctgtatt 1680
gatataacct gtcaggctgg cttgggttagg ttttactggg gcagaggata gggaatctct 1740
tattaaaact aacatgaaat atgtgtgtgt ttcatttgca aatttaaata aagatacata 1800
atgtttgtat garaaaaaaa aaaaaaaaaa aaaaaggcg ggcgtcttag aggatccctc 1860
gaggggcccc agcttacgcg tgcattgcgac gtcattagctc tctccctata gtgagtcgta 1920
ttataagcta gg 1932

```

<210> 737

<211> 1595

<212> DNA

<213> Homo sapiens

<400> 737

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gcctaaagag agctccccca ggaccagccc tggccaaggg attgctgcag ccctcatcca 60
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taatcaggga aatgacaagt tacatactga tatcctttgt tttgctgatt ggagttgggt 180
gcattgaaaa agatcagtcg tgcccagtg tggggggaag gaagcgtctt cacctgttgt 240
ttgtgggagg acagttgagg caggtssagc tgggagctcc ccgacctcca ggagggcaag 300
atccaagcca tcagcgactc ggacgrggtg aactaccctt ggtacggcaa caccacagag 360
acctgcacca tcgtggggcc caccaagagg gactccaagt tcatcatcag catgaatgac 420
aactttttacc ccagcgtcac atggggcgtg cccgtcagcg agagcaacgt ggccaagctc 480
accaacatct accgggacca gagcttcacc acctggctgg tggccaccaa cacctccacc 540
aacgacatga tcactctgca gacgtgcac tggcgcattg agctcagcat cgaggtgaac 600
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aaaatcctga gcaagaatga gcccatcccg ccagcgccc tggtaagcc caatgccaac 720
gatgcccagg tctcatgtg gcggcccagg taygggcagc cgctgggtgt gatcccgccc 780
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aaaacaaaac tcagactcac tcttcagtca ttcagcaaga tacaaccatt ctacctctc 900
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ccacactgct gccgatttgt ggcgtggcc ggccttcccc ccaggtccct ccgcctctg 1260
tcattgcggc ttatgtagac ttgctttgcc aaacttttgc cttaagctga attgaaagga 1320
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cagaggtgga gggagggttg gggtcgcccg cgagartctc ttgarccctt cttcccggtt 1440
gtcttgggag aaggggtgagg atgggcattt agaccgaaa ccagctgctc actctttctt 1500
tttggcagaa ataaaaccac argtagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1595

```

<210> 738

<211> 970

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (854)..(854)

<223> n equals a,t,g, or c

<400> 738

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aartccctct tgggtggggc cacgatgggt caggtcctcc tgtgggtgtg cccgtaccag 120
ggtagttcac cccgtccgag tcgctgatgg cttggatctt gccctcctgg aggtcgggga 180
gctcccagct ggacatgcc tgctcgccgt actggttgta gaactccatg tggctgcag 240
cctggatcca gccaactacc caagtctcct tcttggggat gggcggcatg accacctggg 300
ccgaggcccc gaagtgggtg gtccggtagc ggagcaccac gctggaggac tcatcgatgc 360
tagtggggac ggggtcgatg gaggtcttca catcaatcac cgtgatccct tcccggaaga 420

```

```

ctctggcttt gcctccgatg ctctgaatac agcccatggc atacaggagc gctctgatct 480
ccagggaagg ccagcagtca cagaaaaaac caggcattga aaggacagag gctgcaggac 540
ccagtacaga cggcgctgct ctccaatctc aactctcaag accgatatcc ataggataga 600
aaactcactg agtagactgg gggtgcatat atcactaccg cggcctgttt ataaataagg 660
attctgctgc atttcatgag ccctgggctc tctcttcttc tcctcgagc ggacaaaaat 720
caccgatatt ctttgggtta aaaaaagttt gtagtttaat gaataattat gcggttctga 780
catccagccc ttctgtgcct cacacgcggg gacggcagct cgcagactct ccctgaagtc 840
ttcggaggaa gcangcgagc gccggcagac tcataaataa ggaaggctct gtccccgcgc 900
ggccgcgcca ccctcgcggc agaagcctga ctctctgccc tccggccttc cgcacgcgct 960
cccggcacga

```

<210> 739

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (345)..(345)

<223> n equals a,t,g, or c

<400> 739

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cataccctct accgtggaca ccaggcagcc ctggggctga tggagagaga tcaggatatcc 120
cccaggaggt aggggctacc ttgaggggat gatagacctc cccactccc agtgkkactc 180
tggaaatatg aaggaactag ggagtggaaag agatttcaga gctggggaga ggagttcctc 240
cettcaaaag cagcaactgc ctttggggaa tgctgggggg tctctccttt ctctgcttg 300
tttraggttg tacacagtcc ccccttcamc tggsgggaag ctgtncgga caractatc 360
tcagctttcc cttggggcag gatcgggggc agcagctcca gcagaaacag caggatctgg 420
agcaggaagg cctcgaggcc acacaggggc tgctggccgg cgagtgggccc ccaccctct 480
ggragctggg cagcctcttc caggccttcg tgaagaggga gagccaggct tatgcgtaag 540
cttcatagct tctgctggcc tggggtggac ccaggacccc tggggcctgg gtgcctgag 600
tgggtgtaaa gtggagcaat cccttcacgc tccttggcc a tgctctgagc ggccagcttg 660
gcctttgcct taataaatgt gctttatttt caaaaaaaac t 711

```

<210> 740

<211> 973

<212> DNA

<213> Homo sapiens

<400> 740

```

ggcacgagcc cagcgaagc caagccacca ggccccccag cgtccacgcg gagcatgaac 60
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ctggccccac ggggcattgc tttctctctg gctcttctcc ccacccttg gggccggtgg 180
aggtggagtg gccgtgacgt ctgccgccgg agggggctcc ccgccggcca cctcctgccc 240
cgtggcctgc tcctgcagca accaggccag ccgggtgata tgcacacgga gagacctggc 300
cgaggtccca gccagcatcc cggtaaacac gcggtacctg aacctgcaag agaacggcat 360
ccaggatgatc cggacggaca cgttcaagca cctgcggcac ctggagattc tgcagctgag 420
caagaacctg gtgcgcaaga tcgaggtggg cgcttcaac gggctgcccc gcctcaacac 480
gctggagctt tttgacaacc ggctgaccac ggtgccccag caggccttcg agtacctgtc 540
caagctgcgg gagctctggc tgcggaacaa ccccatcgag agcatcccct cctacgcctt 600
caaccgcgtg ccctcgctgc ggccgctgga cctgggcgag ctcaagcggc tggatacat 660
ctcggaggcg gccttcgagg ggctggtcaa cctgcgctac ctcaacctgg gcatgtgcaa 720
cctcaaggac atccccaacc tgacggccct ggtgcgcctg gaggagctgg agctgtcggg 780
caaccggctg gacctgatcc gcccgggctc cttccagggt ctcaccagcc tgcgcaagct 840
gtggctcatg cacgccagg tagccaccat cgagcgcaac gccttcgacg acctcaagtc 900
gctggaggag ctcaacctgt cccacaacaa cctgatgtcg ctgccccacg acctcttcac 960
gccctgcac cgc

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<210> 741

<211> 984

<212> DNA

<213> Homo sapiens

<400> 741

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| gaattcggca | cgagcccagc | ggaagccaag | ccaccaggcc | ccccagcgtc | cacgcggagc | 60 |
| atgaacattg | aggatggcgc | gtgcccgcgc | ctccccgtgc | cccccgctgc | cgcccggtag | 120 |
| gatgtccttg | ccccacgggg | cattgtctct | cctctggctc | ttctcccccac | ccctgggggc | 180 |
| cggtggaggt | ggagtggccg | tgacgtctgc | cgccggaggg | ggctccccgc | cggccacctc | 240 |
| ctgcccctg | gcctgtcct | gcagcaacca | ggccagccgg | gtgatctgca | cacggagaga | 300 |
| mctggccgag | gtcccagcca | gcatcccgtt | caacacgcgg | tacctgaacc | tgcaagagaa | 360 |
| cgccatccag | gtgatccgga | cggacacgtt | caagcacctg | cggcacctgg | agattctgca | 420 |
| gctgagcaag | aacctggtgc | gcaagatcga | gggtggcgcc | ttcaacgggc | tgcccagcct | 480 |
| caacacgctg | gagctttttg | acaaccggct | gaccacgggt | cccacgcagg | ccttcgagta | 540 |
| cctgtccaag | ctgcgggagc | tctggctgcg | gaacaacccc | atcgagagca | tccctccta | 600 |
| cgcttcaac | cgctgcctt | cgctgcggcg | cctggacctg | ggcgagctca | agcggctgga | 660 |
| atacatctcg | gagggcgctt | tcgargggct | ggtcaacctg | cgctacctca | acctgggcat | 720 |
| gtgcaacctc | aaggacatcc | ccaactgacg | gccctgggtg | gcctggagga | gctggagctg | 780 |
| tcgggcaacc | ggctggacct | gatccgccc | ggctccttcc | aggggtctcac | cagcctgcgc | 840 |
| aagctgtggc | tcattgcacgc | ccaggtagcc | accatcgagc | gcaacgcctt | cgacgacctc | 900 |
| aagtcgctgg | aggagctcaa | cctgtcccac | aacaacctga | tgtcgtgccc | ccacgacctc | 960 |
| ttcacgcccc | tgaccgcct | cgta | | | | 984 |

<210> 742

<211> 553

<212> DNA

<213> Homo sapiens

<400> 742

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-----|
| gtgtgccgga | tttggttagc | tgagcccacc | gagaggcgcc | tgaggatga | aagctctctg | 60 |
| tctcctcctc | ctccctgtcc | tggggctgtt | ggtgtctagc | aagaccctgt | gctccatgga | 120 |
| agaagccatc | aatgagagga | tccaggaggt | cgccggctcc | ctaataattta | gggcaataag | 180 |
| cagcattggc | ctggagtgcc | agagcgtcac | ctccaggggg | gacctggcta | cttgcccccg | 240 |
| aggcttcgcc | gtcacccggt | gcacttgtgg | ctccgcctgt | ggctcgtggg | atgtgcgcgc | 300 |
| cgagaccaca | tgtcactgcc | agtgcgcggg | catggactgg | accggagcgc | gctgctgtcg | 360 |
| tgtgcagccc | tgaggtcgcg | cgcagtggca | acagcgcggg | cggaggcggc | tccagggtccg | 420 |
| gaggggttgcg | ggggagctgg | aaataaacct | ggagatgatg | atgatgatga | tgatggaaaa | 480 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 540 |
| aaaaaaaaaa | aaa | | | | | 553 |

<210> 743

<211> 1614

<212> DNA

<213> Homo sapiens

<400> 743

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|-----|
| ggtgattggt | agttactatg | tggggacaca | attacttggg | ctgaaataat | ccacctgttg | 60 |
| tgggtggggg | cctctggggc | attccagggt | gagaggttgt | caactgccacc | tgggcatgt | 120 |
| gggcccggcac | cagcattttg | tggttacgaa | ttctacagtc | acaaatatct | ttgggcaaat | 180 |
| ccccttctat | acctcaaggc | agcttttggt | ttgcaacccc | actggccaga | gggaagggcc | 240 |
| agtcacttgg | ctctctcact | gcccctgcgc | ccagatgggt | ctaggggctgc | tgttttccct | 300 |
| tggccctgcc | aacaccactg | tttttacttc | tgctcattgg | ctgagtgcag | tggttccttg | 360 |
| aagccagtgg | cacgtttccc | cgcgtagctc | gcttatccca | cagcacacac | ccaagggttc | 420 |
| tgttgctaac | acgctgaatt | aattctttgc | tcattcttaca | gagtgtgttt | tgactgcccc | 480 |
| catttctgag | gccttgtaag | gccagagctt | tgttgcttca | tcggcagggt | gggacttaga | 540 |
| tggccgtgaa | tgtttcctct | ctgctgctgc | agtaagtaag | tgccgcacc | atagtgtgtt | 600 |
| tggaggctga | agttgaagcg | aggctgtgag | gggagatgga | cgtgtgagga | gggatgatgg | 660 |
| ggcttgagca | aagtggggga | ggggcaaacg | agttggccca | acacattccc | cacccttttg | 720 |
| agaggctctga | ggcctgcaga | cctggctcgg | agcccacctg | gtagtcctca | gactgtgtgt | 780 |
| gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | gtaaaagaga | gaagtgtgtg | 840 |
| agaaatgggg | ggctgattct | gctcagattc | atcaggatga | gtagaaggca | cccagctctc | 900 |
| accctggcct | gacatgtgtg | tccttgagca | ggttacagtc | ctctctgagc | ctctgcttcc | 960 |

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catctggacc ctgctgggca gggcttctga gctccttagc actagcagga ggggctccag 1020
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gtgcctttaa tgataaaaagt gatctgcata gagtcaaaaa ttcaagccat gggataaaaa 1560
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<210> 744

<211> 1087

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (14)..(14)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (55)..(55)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (63)..(64)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (174)..(174)

<223> n equals a,t,g, or c

<400> 744

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caagttaaag taangtggcc ccggcaacca ataagtgttg tttttggaag ggctngaaag 60
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gctttgaagc aaaagtgggg gaagggggca aaggcagttg gccaacaca ttcnccacc 180
ctttgagagg tctgaggcct gcagacctgg ctcggagccc acctggtagt cctcagactg 240
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgttaa agagagaagt 300
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cgtggggggc tcccacggac ccgccktggg cccaggggag gcagagcctg agccaacagc 600
agtgggtgtg tggaccgtgg atcctgaggg tggcctgggg caagtaccgg ctgagggtcc 660
aggtgggctt tgtgtacctt tgggtcctgg ggcctggtg acttgactc caggttagag 720
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tccactaggc cagggtgccg gaagtgtcca caggtcttag attccctgtt cagatgaaaa 960
gatttgtgcc tttaatgata aaagtgatct gcatagagtc aaaaattcaa gccatgggta 1020
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<210> 745

<211> 1201

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (66)..(66)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1182)..(1182)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1184)..(1184)

<223> n equals a,t,g, or c

<400> 745

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|------|
| gaattccgga | acaaawgcyg | gagctccacc | gcggtggcgg | ccgctctaga | actagtggat | 60 |
| cccctnkgct | gcaggaattc | ggcacgagct | gctgtctgtg | cttcgggatc | ctgccctcca | 120 |
| gaagtcctcc | aaggcttggt | acttgctcgc | tgtccaggtc | ctgcagctgg | tggcagctta | 180 |
| ccttagcctc | ccgtcaaaca | acctctcaca | ctccctgtgg | gagcagctct | gtgccaagg | 240 |
| ctggcagaca | cctgagatag | ctctcataga | ctcccataag | ctcctccgaa | gcatacctc | 300 |
| cctgctgatg | ggcagtgaca | ttctctcaac | tcagaaagca | gctgtggaga | catcgttttt | 360 |
| ggactatggt | gaaaatctgg | tacaaaaatg | gcaggttctt | tcagaggtgc | tgagctgctc | 420 |
| agagaagctg | gtctgccacc | tgggcccgcct | gggtagtgtg | agtgaagcca | aggccttttg | 480 |
| cttgagggcc | ctaaaactta | caacaaagct | gcagatacca | cgccagtktg | ccctgttcct | 540 |
| ggtgctgaag | ggcgagctgg | agctggcccc | caatgacatt | gatctctgtc | agtcggacct | 600 |
| gcagcaggtt | ctgttcttgc | ttgagtcttg | cacagagttt | ggtgggggtg | ctcagcacct | 660 |
| ggactctgtg | aagaaggtcc | acctgcagaa | ggggaagcag | caggcccagg | tcccctgtcc | 720 |
| tccacagctc | ccagaggagg | agctcttcct | aagaggccct | gctctagagc | tgggtgccact | 780 |
| gtggccaagg | agcctggccc | catagcacct | tctacaaact | cctccccagt | cttgaaaacc | 840 |
| aagccccagc | ccatacccaa | cttcctgtcc | cattcaccca | cctgtgactg | ctcgtctctg | 900 |
| gccagccctg | tcctcacagc | agtctgtctg | cgctgggtat | tggtcacggc | aggggtgagg | 960 |
| ctggccatgg | gccaccaagc | ccagggtctg | gatctgctgc | aggtcgtgct | gaagggctgt | 1020 |
| cctgaagccg | ctgagcgcct | caccaagct | ctccaagctt | ccctgaatca | taaaacaccc | 1080 |
| ccctccttgg | ttccaagcct | cttgatgag | atttggctaa | gcatacacac | tgttgcactg | 1140 |
| gagggcctga | accagccatc | aaacgagagc | ctgcagaagg | tncncagtaa | ggctgaagtt | 1200 |
| t | | | | | | 1201 |

<210> 746

<211> 628

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (567)..(567)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (596)..(596)

<223> n equals a,t,g, or c

<400> 746

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ttgggaagct | ggtmcscctg | caggtaccgg | tccggaattc | ccgggtcgac | ccacgcgtyc | 60 |
| gttccagatt | caattgaaag | tgcattgcag | ggtgatgaaa | gatgtgtgct | tgatactatg | 120 |
| cgttttggtg | accttctctt | ggtgctatta | tttgaaggac | gaaaagcttt | gccaaagtct | 180 |
| agtgtggat | ctacaggcag | aatcccagga | ctccggagat | tagatagttc | tggggagcgc | 240 |
| tcacatcggc | agcttataga | ttgtattcga | agtaaagata | ccgatgcact | tatagatgca | 300 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| attgacacag | gaggtcagaa | aatatTTTTT | taaatataaa | aagaaagttg | tgagataacc | 360 |
| atataggcag | tttctagttt | tcggacagta | ctcttagaaa | tccagataac | aaagtggcac | 420 |
| cccttcgata | ttctccccta | tcctgtgca | taattatgta | attatcagct | tggttcttgg | 480 |
| tgaaacctga | ataaatgctt | tttgatgcaa | aaaaaaaaaa | aaaagaaaaa | taaaaaaaaa | 540 |
| agataaaaaa | aaaccttaaa | aaaaaanaaa | aaaaaaaaaa | aaaaaaaaaa | gaaaanaaaa | 600 |
| aaaaaaaaaca | aaaaaaaaaa | aaaaaaaaa | | | | 628 |

<210> 747

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (367)..(367)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (380)..(380)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (408)..(408)

<223> n equals a,t,g, or c

<400> 747

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|-----|
| atcgtgctca | agtacatcat | ggctgggtgc | cccttgtttc | tgggtaatct | ctgggatgtg | 60 |
| actgaccgcg | acattgaccg | ctacacggaa | gctctgctgc | aaggctggct | tggaagcagg | 120 |
| cccagggccc | cccttctcta | ctatgtaaac | caggcmcgcc | aagctccccg | actcaagtat | 180 |
| cttattgggg | gtgcacctat | acctatggct | tgcctgtctc | tctgcggtta | ccccatggag | 240 |
| ctgtcttatt | gatgctagaa | gcctcataac | tgttctacct | ccaagggttag | atttaatcct | 300 |
| taggataact | cttttaaaagt | gattttcccc | agtgttttat | atgaaacatt | tccttttgat | 360 |
| ttaaccncag | ataataaagn | tacatccatt | taaaaaaaaa | aaaaaaancc | cgagggggggg | 420 |
| cccgg | | | | | | 425 |

<210> 748

<211> 1016

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 748

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| ncggacgcgt | gggaggcaca | ggcctgagaa | gtctgcggct | gagctgggag | caaatcccc | 60 |
| acccccctacc | tgggggacag | ggcaagttag | acctggtgag | ggtggctcag | caggaaggaa | 120 |
| ggagaggtgt | ctgtgcgtcc | tgaccccaca | tctttctctg | tcctctcctt | gccctgtctg | 180 |
| gaggtgctga | gactcctatc | ttctgaattc | tatagtgcct | gggtctcagc | gcagtgccga | 240 |
| tggtggcccc | tccttgtggt | tcctctctac | ttggggaaat | caggtgcagc | ggccatggct | 300 |
| acagcaagac | ccccctggat | gtgggtgctc | tgtgctctga | tcacagcctt | gcttctgggg | 360 |
| gtcacagagc | atgttctcgc | caacaatgat | gtttcctgtg | accacccctc | taacaccgtg | 420 |
| ccctctggga | gcaaccagga | cctggggagct | ggggccgggg | aagacgcccc | gtcggatgac | 480 |
| agcagcagcc | gcatcatcaa | tggatccgac | tgcgatatgc | acaccagacc | gtggcagggc | 540 |
| gcgctgtgtg | taaggcccaa | ccagctctac | tgccggggcg | tggtgggtga | tccacagtgg | 600 |
| ctgctcacgg | ccgcccacct | gcaggaagaa | agttttcaga | gtcgtctcgg | ccactactcc | 660 |
| ctgtcacagt | ttattgaatc | tgggccggag | atgtccaggg | ggtcaattca | atcccgacac | 720 |
| gggtagttca | agctgacatc | taaggacgtg | agttcgttca | acggagaacg | aagaatggtc | 780 |

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acaacacagg tgagcataag ggtaccgcga tggctgcgat gaggggaccac gtgttgggtt      840
gtagggcaca caaacgacca aggcacacct gagcacagga tatcgcgaga atcaaagccg      900
aaggtccaaa cactagtaca gttgaggaac gggatgtgaa atagtacgag gcaaataaca      960
cccggggttc cacatgaaat agctttttct cgcctcttcc ctcccccttc ctctgg      1016

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<210> 749

<211> 1490

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 749

```

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ctgtctggag gctgctagac tcctatcttc tgaattctat agtgcctggg tctcagcgca      120
gtgccgatgg tggcccgtcc ttgtgggtcc tctctacctg gggaaataag gtgcagcggc      180
catggctaca gcaagacccc cctggatgtg ggtgctctgt gctctgatca cagccttgct      240
tctgggggtc acagagcatg ttctcgccaa caatgatgtt tcctgtgacc acccctctaa      300
caccgtgccc tctgggagca accaggacct gggagctggg gccggggaag acgcccggtc      360
ggatgacagc agcagccgca tcatcaatgg atccgactgc gatatgcaca ccagccgtg      420
gcaggccgcg ctgttgctaa ggcccaacca gctctactgc ggggcgggtg tgggtgcatcc      480
acagtggctg ctcacggccg cccactgcag gaagaaagt ttccagagtc gtctcggcca      540
ctactccctg tcaccagttt atgaatctgg gcagcagatg ttccaggggg tcaaatccat      600
ccccaccctt ggctactccc accctggcca ctctaacgac ctcatgctca tcaaactgaa      660
cagaagaatt cgtcccacta aagatgtcag acccatcaac gtctcctctc attgtccctc      720
tgctgggaca aagtgtctgg tgtctggctg ggggacaacc aagagcccc aagtgcactt      780
ccctaaggct ctccagtgct tgaatatcag ctgtctaagt cagaaaaggt gcgaggatgc      840
ttacccgaga cagatagatg acaccatggt ctgcgccggt gacaaaagcag gtagagactc      900
ctgccagggt gattctgggg ggcctgtggt ctgcaatggc tccttgaggg gactcgtgtc      960
ctggggagat tacccttggt cccggcccaa cagaccgggt gtctacacga acctctgcaa      1020
gttcaccaag tggatccagg aaaccatcca ggccaactcc tgagtcatcc caggactcag      1080
cacaccggca tcccacctg ctgcagggac agccctgaca ctcttttcag accctcattc      1140
cttcccagag atgttgagaa tgttcatctc tccagccctt gaccccatgt ctctggact      1200
caggggtctg tccccccaca ttgggctgac cgtgtctctc tagttgaacc ctgggaacaa      1260
tttccaaaac tgtccagggc gggggttgcg tctcaatctc cctggggcac tttcatcctc      1320
aagctcaggg cccatccctt ctctgcagct ctgacccaaa ttagtccca gaaataaact      1380
gagaagtggg aacaaacaca acccccgatc atataaacgc agcacacttc acccaccggc      1440
actaccgcgc acgccagcca cccccaccac aaacggccgc tccttaccgc      1490

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<210> 750

<211> 1441

<212> DNA

<213> Homo sapiens

<400> 750

```

aggaaggaag gagaggtgtc tgtgcgtcct gcaccacat ctttctctgt cccctccttg      60
ccctgtctgg aggtgctag actcctatct tctgaattct atagtgcctg ggtctcagcg      120
cagtgcgatg ggtggcccg cctgtgtggt cctctctact tggggaaatc aggtgcagcg      180
gccatggcta cagcaagacc cccctggatg tgggtgctct gtgctctgat cacagccttg      240
cttctggggg tcacagagca tgtctcgcc aacaatgatg ttctctgtga ccaccctct      300
aacaccgtgc cctctgggag caaccggacc tgggagctgg ggccggggaa gacgcccggg      360
cggatgacag cagcagccgc atcatcaatg gatccgactg cgatatgcac acccagccgt      420
ggcaggccgc gctgttgcta aggcccaacc agctctactg cggggcgggtg ttggtgcatc      480
cacagtggct gctcacggcc gccactgca ggaagaaagt tttcagagtc cgtctcggcc      540
actactccct gtcaccagtt tatgaatctg ggcagcagat gttccagggg gtcaaatcca      600
tccccacccc tggctactcc caccctggcc actctaacga cctcatgctc atcaaactga      660
acagaagaat tcgtccact aaagatgtca gacccatcaa cgtctcctct cattgtccct      720
ctgctgggac aaagtgttg gtgtctggct gggggacaac caagagcccc caagtgcact      780

```

```

tccctaagggt cctccagtgc ttgaatatca gcggtgctaag tcagaaaagg tgcgaggatg      840
cttacccgag acagatagat gacaccatgt tctgcgccgg tgacaaagca ggtagagact      900
cctgccagggt tgattctggg gggcctgtgg tctgcaatgg ctccctgcag ggactcgtgt      960
cctggggaga ttacccttgt gcccggccca acagaccggg tgtctacacg aacctctgca    1020
agttcaccaa gtggatccag gaaaccatcc aggccaaactc ctgagtcacg ccaggactca    1080
gcacaccggc atccccacct gctgcaggga cagccctgac actcctttca gaccctcatt    1140
ccttcccaga gatgttgaga atgttcatct ctccagcccc tgaccccatg tctcctggac    1200
tcagggtctg cttccccac attgggctga cctgtgtctct ctagtgtgaac cctgggaaca    1260
atttccaaaa ctgtccagggt cgggggttgc gtctcaatct ccctggggca ctttcatcct    1320
caagctcagg gcccatccct tctctgcagc tctgacccaa atttagtccc agaaataaac    1380
tgagaagtgg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    1440
a                                                    1441

```

<210> 751

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (34)..(34)

<223> n equals a,t,g, or c

<400> 751

```

ttcacgtgca cactgatcac aacgtcacgc ctgncagggt accggtccgg gaattcccg      60
gtcgaccac gcgtcccgag gagagggtg tgtgcgtcct gcaccacat ctttctctgt    120
ccctccttg ccctgtctgg aggctgctag actcctatct tctgaattct atagtgcctg    180
ggtctcagc cagtgccgat ggtggcccg ccttgtggtt cctctctact tggggaaatc    240
agggtgcagc gccatggcta cagcaagacc cccctggatg tgggtgctct gtgctctgat    300
cacagccttg cttctggggg tcacagagca tgttctcgcc aacaatgatg tttcctgtga    360
ccaccctct aacaccgtgc cctctgggag caaccaggac ctgggagctg gggccgggga    420
agacgcccgg tcggatgaca gcagcagccg catcatcaat ggatccgact gcgatatgca    480
caccagccg tggcaggccg cgctgttgct aaggccaac cagctctact gcggggcggt    540
gttggtgcat ccacagtggc tgctcacggc cgccactgc aggaagaaag ttttcagagt    600
ccgtctcggc cactactccc tgtcaccagt ttatgaatct gggcagcaga tgttcagggt    660
ggtcaaatcc atccccacc ctggctactc ccaccctggc cactctaacg acctcatgct    720
catcaaatg aacagaagaa ttctgtccac taaagatgtc agaccatca acgtctcctc    780
tcattgtccc tctgtctggg caaagtgtt ggtgtctggc tgggggacaa ccaagagccc    840
ccaagtgcac ttccctaagg tcctccagtg ctgaaatc agcgtgctaa gtcagaaaag    900
gtcgaggat gcttaccga gacagataga tgacacatg ttctgcgccg gtgacaaagc    960
aggtagagac tcctgccagg gtgattctgg ggggcctgtg gtctgcaatg gctccctgca    1020
gggactcgtg tcctggggag attacccttg tgcccggccc aacagaccgg gtgtctacac    1080
gaacctctgc aagttcacca agtggatcca ggaaaccatc caggccaact cctgagtcac    1140
cccaggactc agcacaccgg catccccacc tgctgcaggg acagccctga cactccttc    1200
agaccctcat tccttcccag agatgttgag aatgttcac tctccagccc ctgaccccat    1260
gtctcctgga ctccagggtc gcttccccca cattgggctg accgtgtctc tctagttgaa    1320
ccctgggaac aatttccaaa actgtccagg gcgggggttg cgtctcaatc tccctggggc    1380
actttcatcc tcaagctcag ggcccatccc ttctctgcag ctctgaccca aatttagtcc    1440
cagaaataaa ctgagaagtg gaatcttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    1500
aaaaaagggc ggccgc                                                    1516

```

<210> 752

<211> 1381

<212> DNA

<213> Homo sapiens

<400> 752

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gataactcag gcccggtgcc cagagcccag gaggaggcag tggccaggaa ggcacaggcc      60
tgagaagtct gcggctgagc tgggagcaaa tccccaccc cctacctggg ggacagggtg    120
cagcgcccat ggctacagca agacccccct ggatgtgggt gctctgtgct ctgatcacag    180
ccttctctct gggggtcaca gagcatgttc tcgccaacaa tgatgtttcc tgtgaccacc    240

```

```

cctctaacac cgtgccctct gggagcaacc aggacctggg agctggggcc ggggaagacg 300
cccggtcgga tgacagcagc agccgcatca tcaatggatc cgactgcgat atgcacaccc 360
agccgtggga ggccgcgctg ttgctaaggc ccaaccagct ctactgcggg gcggtgttgg 420
tgcattccaca gtggctgtct acggccgccc actgcaggaa gaaagttttc agagtccgtc 480
tcggccacta ctccctgtca ccagtttatg aatctgggca gcagatgttc caggggggtca 540
aatccatccc ccaccctggc tactcccacc ctggccactc taacgacctc atgctcatca 600
aactgaacag aagaattcgt cccactaaag atgtcagacc catcaacgtc tcctctcatt 660
gtccctctgc tgggacaaaag tgcttgggtg ctggctgggg gacaaccaag agccccaag 720
tgacttccc taaggctctc cagtgttga atatcagcgt gctaagtcag aaaagggtgcg 780
aggatgttta cccgagacag atagatgaca ccatgttctg cgccggtgac aaagcaggta 840
gagactcttg ccagggtgat tctggggggc ctgtgtgtct caatggctcc ctgcaggac 900
tcgtgtcctg gggagattac ccttgtgccc ggccaacag accgggtgtc tacacgaacc 960
tctgcaagtt caccaagtgg atccaggaat ccatccaggc caactcctga gtcattcccag 1020
gactcagcac accggcatcc ccacctgctg cagggacagc cctgacactc ctttcagacc 1080
ctcattcctt cccagagatg ttgagaatgt tcatctctcc agcccctgac ccatgtctc 1140
ctggactcag ggtctgtctt cccacattg ggctgaccgt gtctctctag ttgaaccctg 1200
ggaacaattt ccaaaactgt ccaggggcgg ggttgctgtc caatctccct ggggcacttt 1260
catcctcaag ctcaggggcc atcccttctc tgcagctctg acccaaatat agtcccagaa 1320
ataaactgag aagtggaaatc ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
a 1381

```

<210> 753

<211> 1439

<212> DNA

<213> Homo sapiens

<400> 753

```

ccacgcgctc cgcaggagag gtgtctgtgc gtccctgcacc cacatctttc tctgtccctt 60
ccttgccctg tctggaggct gctagactcc tatcttctga attctatagt gcctgggtct 120
cagcgcagtg ccgatggtgg cccgtccttg tggttcctct ctacttgggg aaatcagggtg 180
cagcggccat ggctacagca agacccccct ggaatgtggg gctctgtgct ctgatcacag 240
ccttgcttct gggggtcaca gagcatgttc tcgccaacaa tgatgtttcc tgtgaccacc 300
cctctaacac cgtgccctct gggagcaacc aggacctggg agctggggcc ggggaagac 360
gcccggctcg atgacagcag cagccgcctc atcaatggat ccgactgcga tatgcacacc 420
cagccgtggc aggcgcgctt gttgctaagg cccaaccagc tctactgcgg ggcggtgttg 480
gtgcatccac agtggctgct cagggccgct cactgcagga agaaagtttt cagagtccgt 540
ctcggccact actccctgtc accagtttat gaatctgggc agcagatgtt ccagggggtc 600
aaatccatcc cccaccctgg ctactcccac cctggccact ctaacgacct catgctcatc 660
aaactgaaca gaagaattcg tcccactaaa gatgtcagac ccatcaacgt ctctctcat 720
tgtccctctg ctgggacaaa tgcttgggtg ctggctgggg gacaaccaag accccaagt 780
gcacttccct aaggctctcc agtgcttga tatcacgtgc taagtcagaa aagggtgcgag 840
gatgcttacc cgagacagat agatgacacc atgttctgct cgggtgacaa agcaggtaga 900
gactcctgcc aggggtgattc tggggggcct gtggtctgca atggctccct gcagggactc 960
gtgtcctggg gagattaccc ttgtgcccgg cccaacagac cgggtgtcta cacgaacctc 1020
tgcaagttca ccaagtggat ccaggaaacc atccaggcca actcctgagt catcccagga 1080
ctcagcacac cggcatcccc acctgctgca gggacagccc tgacactcct ttcagacctt 1140
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<210> 754

<211> 1191

<212> DNA

<213> Homo sapiens

<400> 754

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gggatactcc caccatctc tcccgaagg agtggggggc aagaccgtc gcctgcaggg 180

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<210> 755

<211> 1626

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (525)..(525)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (542)..(542)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (562)..(562)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (607)..(607)

<223> n equals a,t,g, or c

<400> 755

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gtttggatgg agctttgtct ttgaggactt tgtctctgat gagctgagaa acaaagccac 360
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gratgacgcc cgtgccta atgtgcytkgs ggggraaacg actgncccac sggagggaag 540
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ggtctgggag aaccagatga tgtactagg gaagcattgc attgtgggaa tcacaaagca 1560
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aaaaaa 1626

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<210> 756

<211> 549

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (496)..(496)

<223> n equals a,t,g, or c

<400> 756

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ccgcccggcg ggaccgcgca cggcctctag gtctcctcgc caggacagca acctctcccc 180
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acgaggagct ggtgctagcc ttgcttccg aggaggacgg cctggccgaa gcaccgagc 360
acggaaccac agccaccttc caccgctgcg ccaaggatcc gtggagggtg cctggcacct 420
acgtgggtgt gctgaaggag gagaccacc tctcgagtc agagcgact gcccgccgcc 480
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tcttcttg 549

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<210> 757

<211> 1120

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (6)..(6)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (13)..(13)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (17)..(17)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1020)..(1020)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1084)..(1084)

<223> n equals a,t,g, or c

<400> 757

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| gggtccggaat | tcccgggtcg | acccacgcgt | ccggagccag | gcagtgcagc | tggctcgggc | 120 |
| gggcccgggac | gcgtcggtgc | agcagcggct | cccagctccc | agccaggatt | ccgcgcgccc | 180 |
| cttcacgcgc | cctgctcctg | aacttcagct | cctgcacagt | cctccccacc | gcaagggtca | 240 |
| aggcgccggc | ggcgtggacc | gcgcacggcc | tctaggtctc | ctcgccagga | cagcaacctc | 300 |
| tcccctggcc | ctcatgggca | ccgtcagctc | caggcgggtcc | tgggtggccgc | tgccactgct | 360 |
| gctgctgctg | ctgctgctcc | tgggtcccgc | gggcgcccgt | gcgcaggagg | acgaggacgg | 420 |
| cgactacgag | gagctgggtgc | tagccttgctg | ttccgaggag | gacggcctgg | ccgaagcacc | 480 |
| cgagcacgga | accacagcca | ccttcaccgc | ctgcgccaag | gatccgtgga | ggttgctctg | 540 |
| cacctacgtg | gtggtgctga | aggaggagac | ccacctctcg | cagtcagagc | gcactgcccc | 600 |
| ccgcctgcag | gcccaggctg | cccgcggggg | atacctcacc | aagatcctgc | atgtcttcca | 660 |
| tggccttctt | cctggcttcc | tgggtgaagat | gagtggcgac | ctgctggagc | tggccttgaa | 720 |
| gttgcccat | gtcgactaca | tgcaggagga | ctcctctgtc | tttgcccaga | gcatcccggtg | 780 |
| gaacctggag | cggattaccc | ctccacggta | ccgggcggat | gaataccagc | ccccgcagcg | 840 |
| aggcagcctg | gtggagggtg | atctcctaga | caccagcata | cagagtgcac | accgggaaat | 900 |
| cgagggcagg | gtcatgggtc | ccgacttcga | gaatgtgccc | gaggaggacg | ggacccgctt | 960 |
| ccacagacag | gccagcaagt | gtgacagtca | tggacccacc | tggcaggggt | ggtcagcggn | 1020 |
| cgggatgccg | gcgtggccaa | gggtgccagc | atgcgcagcc | tgcgcgtgct | ttccccaaaa | 1080 |
| aaanccctt | ttggggggcc | cccccaaaa | aaaggggggg | | | 1120 |

<210> 758

<211> 1893

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1853)..(1853)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1871)..(1871)

<223> n equals a,t,g, or c

<400> 758

| | | | | | | |
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| gtcaccatat | taataaaaa | gtcacaaaac | ccagaataaa | tatcttcaag | ttacaaaagc | 120 |
| aaaacaggtc | tagaaaagtt | ggctgtaaaa | aggcaacaga | gaggacagac | ccaaaagata | 180 |
| aatgtctgct | tgcttgggtg | gggctgggtc | tcaaggaggg | acagttggtg | gccctctccc | 240 |
| ccgaccatgc | cttagaagca | tctccgccag | gccagtgaat | caggcctggg | tgataacgga | 300 |
| aaaagtcca | tgccctgcag | catcgttctg | ccatcactca | ccgagcttcc | tggctctgtg | 360 |
| tccccttccc | agcctcactg | ttacccgtaa | aaatgaggag | cccagccggg | tgaagtaaga | 420 |
| agaggcttgg | cttcagagcc | agcccaatct | gcgtttctgg | ctcagttcct | gctgtgtgag | 480 |
| cttggcaggc | acgccccctc | tggttccagg | ttcttctcct | tgtgaagtag | gggtgcgaak | 540 |
| wgtgtactgc | cgggtagtgg | agcgggttgg | ctgagacagt | gcattgcacca | ctgcacactg | 600 |
| ccgagtcagt | cctaggtgat | ggctccccgc | aggccacctt | tgggtgttgc | tagcacagcc | 660 |

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tggcatagag cagagtaaag gtggctcagg aaaccaagca cagcctgtga ccaccagggg 720
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aagattcccc nttcccccc stccccctg tgc 1893

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<210> 759

<211> 1187

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (39)..(39)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (46)..(46)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1052)..(1052)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1108)..(1108)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1129)..(1129)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1138)..(1138)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1158)..(1158)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1172)..(1172)
 <223> n equals a,t,g, or c

<400> 759
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<210> 760
 <211> 2351
 <212> DNA
 <213> Homo sapiens

<400> 760
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<210> 761

<211> 1001

<212> DNA

<213> Homo sapiens

<400> 761

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tggaatttta caaatatgac agtcagattc ttttcatttg gaaaaggtaa aactccgaaa 180
cagttttttt atttttaact tttaatcctt gttttcacct catcctgctt atattaaatt 240
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gttggcattg agtcaaacca tcttctccca aggtttttgc agctcacaga aagaataatc 420
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a
1001

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<210> 762

<211> 669

<212> DNA

<213> Homo sapiens

<400> 762

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ccacgcgtcc ggacactttt tatgctattg gacttgtgat gcgactttgc caatccgtat 60
ctctcctgga actgctgcac atatatgttg gcattgagtc aaaccatctt ctcccaaggt 120
ttttgcagct cacagaaaga ataactatcc tttttgtggt gatcaccagt caagaggaag 180
tccaagagaa atatgtggtg tgtgttttat tgcctttttg gaactctattg gatatggtta 240
ggtacactta tagcatgtta tcagtcatag gaatataccta tgctgtcttg acatgggctc 300
agtcaaacac tatggatgcc aatttatcct ttgtgtgttc ttgctgaagc atttgccatc 360
tatcaatcgc tggcttattt tgaatcattt ggcacttatt ccaccaagct gccctttgac 420
ttatccatct atttcccata tgtgctgaaa atatatctca tgatgctctt tataggtatg 480
tattttacct acagtcatct aactcagaa agaagagaca tcttcggaat ctttccatt 540
aaaaaaaaa agatgtgaag tacagcattc cagtgtgaca cgagaaaaga caggctgtgg 600
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669

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<210> 763

<211> 1356

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1231)..(1231)
 <223> n equals a,t,g, or c

<400> 763
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 aactctgtca accagggtgca gaaaatgctt ttaaagttag acttagtata agaacagctc 120
 tgggagataa agcatatgcc tgggatacca atgaagaata cctcttcaaa gcgatggtag 180
 ctttctccat gagaaaagtt cccaacagag aagcaacaga aatttcccat gtcctacttt 240
 gcaatgtaac ccagaggtat cattctgggt ttgtggtaca gacccttcaa aaaatcacac 300
 ccttctctgt gttgaggtgc aatcagccat aagaatgaac aagaaccgga tcaacaatgc 360
 cttctttcta aatgacaaaa ctctggaatt tttaaaaatc cttccacac ttgcaccacc 420
 catggaccca tctgtgcccc tctggattat tataatttgg gtgatatttt gcatcatcat 480
 agttgcaatt gcactactga ttttatcagg gatctggcaa cgtagaagaa agaacaaaga 540
 accatctgaa gtggatgacg ctgaagataa gtgtgaaaac atgacacaa ttgaaaatgg 600
 catcccctct gatcccctgg acatgaaggg agggcatatt aatgatgcct tcatgacaga 660
 ggatgagagg ctaccccctc tctgaagggc tgtgttctg cttcctcaag aaattaaaca 720
 tttgtttctg tgtgactgct gagcatcctg aaataccaag agcagatcat atattttgtt 780
 tcaccattct tcttttgtaa taaattttga atgtgcttga aagtgaagaa caatcaatta 840
 taccaccaa caccactgaa atcataagct attcacgact caaaatattc taaaatattt 900
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 taaattttcc agtggaggat acatataata tgggttagaa atcattgaaa atggatcctt 1080
 tttgacgac acttatatca ctctgtatat gactaagtaa acaaaagtga gaagtaatta 1140
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 tcacaccaac agttgattat atattttctg natatcagcc cctaatagga caattctatt 1260
 tgttgacat ttctacaatt tgtaaaagtc caatctgtgc taacttaata aagtaataat 1320
 catcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1356

<210> 764
 <211> 1063
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (444)..(444)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (962)..(962)
 <223> n equals a,t,g, or c

<400> 764
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 ccagcacctt gggaggccga ggtggccaga tcattgaggt caggagtttg aaaccagcct 180
 ggccaacatg gtgaaacccc gtctctacta aaaatacaaa aattagccag gtgtgtgggg 240
 cgtgcgcctg tagtcccagc tacttgggag gctgaggcag gagaatcgct tgagcctggg 300
 aagcagaggt tgcattgggc gggatcacgc cactgcactc cagcctgggt gacagcaaga 360
 ctccatctaa gaaaacaaaa aaaaaaagta cgattggtgc gccagagtga acacaaaaatg 420
 taaagacttg tgtatttgg agancctttt gaagcatgct atctcccag ctamaccctc 480
 ttcagggtgc cctttcctgc tctcctgct tttcaaaactg tggctcgtgg ttccaggctc 540
 aagcacggac atcagtragg actgggagaa agacttttrac ttggacatga ctgaagagga 600
 ggtgcagatg gcactttcca aagtggatgc ctccggggag gtgagtgggc ctgggtgggtc 660
 agagggaagc gagcctaata gtcctgggtg tgagagctct cccagccag cccagctgtc 720
 ccctcaggag ggtccctgct cctgtytgag gtgacaggtg gtgggaaagg agctggagct 780
 tctctgctag acccacaaca ttggtcatca gcaggytgca cttttcctca gttccagggt 840

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ggatagaggg tcaagttctt gaccttagct ctgtatcaaa attgcctgag aaactgctta    900
agaaaacaga tgtcatgctg agcacggtgg ctccacctg taatcccaac actttgggag    960
gnccaagggtg ggaggattgc ttgaggcgag gagttcaaga ccagcctggc caatatagtg   1020
agacccatt tctgtttttg aaaaaaaaaa aaaaaggcg gcc                               1063

```

<210> 765

<211> 1311

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1036)..(1036)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1112)..(1112)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1168)..(1168)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1223)..(1223)

<223> n equals a,t,g, or c

<400> 765

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catcagtgtc ctgggaacca gctgggcaga tgtggtacac ccatgtcaga taccctcagt   180
gcaggctcct gtcactgtag cacttggtcc ctccatccct ccagccttc ctagctcctt   240
gtccttgga acctcccccc atcaatctct gacatttcag aggaaatact gttgtcacc   300
tcttaaggaa tctgggagga cggcctgtga gatatggcgt cagttacagc ctcttaaaga   360
gtcaatagcc cctgcagagg ccagaacact ggaacaaatg taaggaaagt atagttttta   420
aagatttttg actgaatta aataggattg gttacttctt gccctcccg aggttggaact   480
gtgcacagaa gagacctctt caccgggttt gctgctcttt ttcgactgt gagttggggt   540
tctaacagtc agcgttggtc cataacaaaa tggaaatcct ttctttccc tcctgttaat   600
gccccctgtc tgtgcagtga ctgtgcaacc agcacctttt gtggtcgaat cagccagcag   660
aagtgccct cgtgttctct gattctctct tctgtggttc catttctttg agtcctgggt   720
tctcgccctg aatggctcaa cagggggaaa ggcagacagc ttcttcgtgc cagaaacatt   780
ttttttttt tttgaaatar tgagccaaga ttgcgccact gcattccatc ctcagcaaca   840
garcaagact ccaactcawa acaaaacaaa agattgargt wattgtggca acacctgcct   900
ttttttctaa gctgcaattc tctactgttt tcaagaaaaa tacaagttag cctatttaca   960
gaatgttttg aattgactcc tgtcctctgg ttaaaactcc tcttgagata attgatagct  1020
gaaaaggtag gatgntctc tcaaacttga cttccatcta aatcaacgct gagttgatta  1080
acttagatat caagaaaaat tgcctcatta gnttaccctt gaggagatgc ctatgaaggt  1140
acatcctttt tacaattaat aagacagntt tcacatgaag aaacaatttg aaatatttaa  1200
taagaaaaat ggggtgaaggc aancattacg gttgggaaaa gaccatgcaa gcctttatag  1260
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<210> 766

<211> 718

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (678)..(678)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (687)..(687)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (699)..(699)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (708)..(708)
 <223> n equals a,t,g, or c

<400> 766
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 aatgccttgg caacagtgac ctttgaggat tttgtcaaga gctgttttcc tcatctctcc 120
 gacaagctga gcacctggat cagtaaaggc ttatgtctct tatttggcgt gatgtgtacc 180
 tctatggctg tggctgcatc tgtcatggga ggtgttgtgc aggcttcct cagcattcac 240
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 aattggaagg gtgcactagg aggtcttctt actggaatca ccttgtcatt ttgggtggcc 360
 attggggcct tcatttaccc tgcaccagcc tctaagacat ggcctttgcc tctatcaaca 420
 gaccaatgta tcaaatacaa tgtgacagca acagggcctc cagtactatc cagcagacct 480
 ggaatagctg atacctggta ctgactctcc tacctttact acagtgcagt gggctgctta 540
 ggatgcattg ttgctggagt aatcatcagc ctcataacag gtcgccaag aggtgaggat 600
 attcaaccac tggttaatta gaccagtttg taatttaatt tgcttttggc ctaagaaagt 660
 acaaaaccac tatgctgngt gtggagntca gcatgacant ggggacanag caggaaaa 718

<210> 767
 <211> 614
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (52)..(52)
 <223> n equals a,t,g, or c

<400> 767
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 tagagtaaaa atwaattacc agtatttatt attagaaaag atagaaagac agacaaatca 120
 gtggaggaat taaaacagag aaactggagt ttataaaaaca gagcccaatc cttgccttct 180
 ctccctccac tcaaatagaa aaggagaatg gagaaagaga aagaaggat taggctacag 240
 tttataagag agatgagaaa aaaatacatt tgggaataga gggaaaggggt caaaaggggt 300
 cacatttgga gaaatatctg aaaatgagaa ggagcagaat ttttggaac attttttaaa 360
 gtctggcaac gctaattaag ctgttgatct aaggatttgc aaattgagag gtgcaattat 420
 tttccaaatg atttgtgaca ctcttattaa ttagaatata tattctgtga atattgaaat 480
 ctgagccaaa actagttagc tttattaata tcttagggaa agaagagaga aagaagagg 540
 gagggagaga gagaaagaaa gaaagaaaga aagaagaaaa gaaagaaaga aaaaaaaaaa 600
 aaaaaaactc gtag 614

<210> 768

<211> 465
 <212> DNA
 <213> Homo sapiens

<400> 768
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 cctgggtggc gtggtccgcg tggccgagta ccgaaaccac tggtcggacg tgctggctgg 180
 cttcctgaca gggcgggcca tcgccacctt tttggtcacc tgcgttggtc ataactttca 240
 garccggcca ccctctggcc gaargctctc tccccaragt gcctaccctc gcctgcctgg 300
 gcctyagttt ccacatctgc acaatggggg tgaccatccc tgccctgctg gctgcaggag 360
 cggctgtgag tcttcagcgt ggatgcagcc tgggggaagc catagggcag ctttcacagg 420
 cctggccctta ccatgggagg gagggagacc gcatccgaag aggag 465

<210> 769
 <211> 1194
 <212> DNA
 <213> Homo sapiens

<400> 769
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 ggatgcaaaa cctcttttga gtactagaat cagtatttct tcttccatct ctgctgtacc 120
 tgagaagaaa tggccaaacg caccttctct aacttgga cattcctgat tttcctcctt 180
 gtaatgatga gtgccatcac agtggccctt ctcagcctct tgtttatcac cagtgggacc 240
 attgaaaacc acaaagattt aggaggccat ttttttcaa ccacccaaag ccctccagcc 300
 acccagggct ccacagccgc ccaacgctcc acagccacc agcattccac agccaccag 360
 agctccaaca gccaaactcaa acttctccag tgcctttaac cccagagtct cctctatttc 420
 agaacttcag tggctacat attggtgttg gacgagctga ctgcacagga caagtagcag 480
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 tatacagtcg tgccctcatc atggcagaac ctgatgggtc caatcgaaca gtgtttgtca 600
 gcatcgacat aggcattgta tcccaaaggc tcaggctgga ggtcctgaac agactgcaga 660
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 atatgaaacc aggcaaaatc ttcataata aaggaaatgt ggatgggtg cagatcaaca 900
 gaagtcgta ttcttacctt caaaatccgc agtcagagag agcaaggat tcttcaaata 960
 cagacaagga aatgatagtt ttgaaatgg tagatttgaa tggagatgac ttgggcctta 1020
 tcagtttttc attcagcaag tctgcactag ggacctacta tgagccacgc aatacttctt 1080
 tggatgatg tattccctgg ccttgaaata aggaatctag taccatggt tgtgctactg 1140
 gaatgaatcc attaaactct ctgagactca aaaaaaaaaa aaaaaaaaaa aaaa 1194

<210> 770
 <211> 2334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2278)..(2278)
 <223> n equals a,t,g, or c
 <220>
 <221> misc_feature
 <222> (2290)..(2290)
 <223> n equals a,t,g, or c

<400> 770
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 ggacgaggcc ggggttctt caaggaggct ctctgactgc caccctgcc tgcctgccc 120
 gccctgcaca acatgcagcc ctccggcctc gagggtcccg gcacgtttgg tcggtggcct 180
 ctgctgagtc tgctgctcct gctgctgctg ctccagcctg taacctgtgc ctacaccag 240

| | | | | | | |
|-------------|------------|-------------|-------------|------------|-------------|------|
| ccaggcccc | ccagagccct | caccacgctg | ggcgccccca | gagcccacac | catgccgggc | 300 |
| acctacgctc | cctcgaccac | actcagtagt | cccagcacc | agggcctgca | agagcaggca | 360 |
| cgggccctga | tgcgggactt | cccgcctgtg | gacggccaca | acgacctgcc | cctggctcta | 420 |
| aggcagggtt | accagaaagg | gctacaggat | gttaacctgc | gcaatttcag | ctacggccag | 480 |
| accagcctgg | acaggcttag | agatggcctc | gtggcgcccc | agttctggtc | agcctatgtg | 540 |
| ccatgccaga | cccaggaccg | ggatgccctg | cgcctcacc | tggagcagat | tgacctcata | 600 |
| cgccgcatgt | gtgcctccta | ttctgagctg | gagcttgtga | cctcggctaa | agctctgaac | 660 |
| gacactcaga | aattggcctg | cctcatcggt | gtagaggggtg | gccactcgct | ggacaatagc | 720 |
| ctctccatct | tacgtacctt | ctacatgctg | ggagtgcgct | acctgacgct | caccacacc | 780 |
| tgcaacacac | cctgggcaga | gagctccgct | aaggcgctcc | actccttcta | caacaacatc | 840 |
| agcgggctga | ctgactttgg | tgagaagggtg | gtggcagaaa | tgaaccgcct | gggcatgatg | 900 |
| gtagacttat | cccatgtctc | agatgctgtg | gcacggcggg | ccctggaagt | gtcacaggca | 960 |
| cctgtgatct | tctcccactc | ggctgcccg | gggtgtgtga | acagtgtctg | gaatgttctt | 1020 |
| gatgacatcc | tgagcttctt | gaagaagaac | gggtggcgctg | tgatgggtgc | tttgtccatg | 1080 |
| ggagtaatac | agtgaacccc | atcagccaat | gtgtccactg | tggcagatca | cttcgaccac | 1140 |
| atcaaggctg | tcatgtgatc | caagttcatc | gggattgggtg | gagattatga | tggggccggc | 1200 |
| aaattccctc | aggggctgga | agacgtgtcc | acataccag | tcctgataga | ggagtgtctg | 1260 |
| agtcgtggct | ggagtgagga | agagcttcag | gggtgccttc | gtggaaacct | gctgcgggtc | 1320 |
| ttcagacaag | tggaaaaggt | acaggaagaa | aacaaatggc | aaagccccct | ggaggacaag | 1380 |
| ttccggatga | agcagctgag | cagttcctgc | cactccgacc | tctcacgtct | gcgtcagaga | 1440 |
| cagagtctga | cttcaggcca | ggaactcact | gagattocca | tacactggac | agccaagtta | 1500 |
| ccagccaagt | ggtcagtctc | agagtccctc | ccccacatgg | ccccagtcct | tgcagtgtgtg | 1560 |
| gccaccttcc | cagtccttat | tctgtggctc | tgatgaccca | gttagtcctg | ccagatgtca | 1620 |
| ctgtagcaag | ccacagacac | cccacaaaag | tccccgtgtt | gcaggcacia | atatttctctg | 1680 |
| aaataaatgt | tttggacata | gaaaaaaaaa | aaaaaaaaag | ggcgcccgct | ctagaggatc | 1740 |
| cctcgagggg | cccaagctta | cgcgtgcatg | cgacgtcata | gctctctccc | tatagttagt | 1800 |
| cgtattataa | gctaggcact | ggccgtcggt | ttacaacgtc | gtgactggga | gatctgctag | 1860 |
| cttgggatct | ttgtgaagga | accttacttc | tgtgtgtgtga | cataattgga | caaactacct | 1920 |
| acagagattt | aaagctctaa | ggtaaatata | aaatttttaa | gtgtataatg | tgtaaacta | 1980 |
| gctgcataatg | cttgctgctt | gagagttttg | cttactgagt | atgatttatg | aaaatattat | 2040 |
| acacaggagc | tagtgattct | aattgtttgt | gtattttaga | ttcacagtcc | caaggctcat | 2100 |
| ttcaggcccc | tcagtcctca | cagtcctgtc | atgatcataa | tcagccatac | cacatttgta | 2160 |
| gagggtttac | ttgctttaaa | aaacctycca | cacctcccc | tgaacctgaa | acataaaatg | 2220 |
| aatgcaattg | gtggtggtaa | cttgggttaat | ggagcttata | atggtaccaa | taaagcantg | 2280 |
| catcacaaan | ttcccaata | aagcattttt | tcctggaatt | taaatggggg | ttgg | 2334 |

<210> 771

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (20)..(20)

<223> n equals a,t,g, or c

<400> 771

| | | | | | | |
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| ggagccctgg | ctgggtgcgg | ctcgtctttt | gcctgacggg | cttagtgctc | tcgctctacg | 120 |
| cgtcgcacgt | gaaggcggcg | cgcgccccgg | accgggatta | ccgcgcgctc | tgcgacgtgg | 180 |
| gcaccgccat | cagctgttcg | cgcgtcttct | cctccaggtt | gcctgsgggac | acgttgggcc | 240 |
| tctgtmctga | tgctgctgag | ctccctgggtg | tctctcgctg | gttctgtcta | cctggsctgg | 300 |
| atcctgttct | tcgtgctcta | tgawtttctg | cattgtttgt | aatcaccacc | tatgctatca | 360 |
| acgtgacctg | atgtggctca | gtttccggaa | gggtccaagaa | ccccaggggca | aggctaagag | 420 |
| gcactgagcg | ctcaacccaa | gccaggctga | cctcatctgc | tttgctttgg | catgtgagcc | 480 |
| ttgcctaagg | gggcataatct | gggtccctag | aaggccctag | atgtggggct | tctagattac | 540 |
| cccctcctcc | tgccataccc | gcacatgaca | atggaccaa | tgtgccacac | gctcgctctt | 600 |
| ttttacaccc | agtgcctctg | actctgtccc | catgggctgg | tctccaaagc | tctttccatt | 660 |
| gcccaggggag | ggaagggttct | gagcaataaa | gtttcttaga | tcaaaaaaaa | aaaaaaaaaa | 720 |

<210> 772

<211> 759
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (51)..(52)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (57)..(58)
 <223> n equals a,t,g, or c

<400> 772
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 aaaaagctta tttttagggt gacacttatt agaagttacg ccttgagggt taccgggtcc 120
 ggaattcccg ggtcgaacc caaggggttc gcggacccca gacatgagga ggctcctcct 180
 ggtcaccagc ctggtggttg tgctgctgtg ggaggcagggt gcagtcccag caccgaagggt 240
 ccctatcaag atgcaagtca aacactggcc ctgagagcag gaccagaga aggcctgggg 300
 cgcccgtgtg gtggagcctc cggagaagga cgaccagctg gtggtgctgt tccctgtcca 360
 gaagccgaaa ctcttgacca ccgaggagaa gccacgagggt cagggcaggg gccccatcct 420
 tccaggcacc aaggcctgga tggagaccga ggacaccctg ggccgtgtcc tgagtcccga 480
 gcccgaccat gacagcctgt accaccctcc gcctgaggag gaccagggcg aggagaggcc 540
 ccggttgtgg gtgatgcaa atcaccagggt gctcctggga ccggaggaag accaagacca 600
 catctaccac cccagtagg gctccagggg ccatcactgc ccccgccctg tcccaaggcc 660
 caggctgttg ggactgggac cctccctacc ctgcccagc tagacaaata aaccaccgca 720
 ggccgggaaa aaaaaaaaaa aaaaaaaaaa ggcggccgc 759

<210> 773
 <211> 733
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (652)..(652)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (675)..(675)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

<222> (685)..(685)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (704)..(704)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (719)..(719)

<223> n equals a,t,g, or c

<400> 773

| | |
|---|-----|
| ggcacagcaa aaggggcttc tattgtattg gtcataatattt attttggttt aaaaaatttt | 60 |
| agagtaaatg tggcaaatg ttaatgcttg ttaaactctga gtggagagta cattgggtgtt | 120 |
| aagtgtgctg ctatgcaggg tgagtgaatt actcaataac taaataattg tgacataata | 180 |
| tattttattta tgcttccctg ttatgatcta cacataaaat tactggagca ttattgctta | 240 |
| acttcttgta aaaaagttct gcaattgtag tgttattaag aaagtaatat tgatttgat | 300 |
| agtgacagag gattttttca gtgkacttt gccagcagag atcttcatgg tgggcattgs | 360 |
| ccctgcccat gtctcacttg gccctgggct tgcccacta ggtaccctgc ccacctggcc | 420 |
| aggcaggctg tgcttggtt gagctctggc ccagatcctg cacttgctct gcggcttgag | 480 |
| ccaggcatgc catgacctac ttccaccttg ggagccgcgt ctggatgagg ggaatgctgt | 540 |
| gacacttgaa cagaaggtgg catgtgacct caaagcccaa aagggggtgg tacagcatgc | 600 |
| tacagtcttc agctacatca cagccacaat ggagtgtgtt gccaaagtcc tntccatgtt | 660 |
| gcagcagaag gtgntcagg tacanttggt gactgccgtg gggnetgagt ctttccatnc | 720 |
| cagataagtg gct | 733 |

<210> 774

<211> 741

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (44)..(44)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (69)..(69)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (79)..(79)

<223> n equals a,t,g, or c

<400> 774

| | |
|--|-----|
| gtatagttga ccaagaggga tttttttcag tgtcactttg ccnagcaga agatttttca | 60 |
| atgggtggnc attgcccctt gcccaatgtc tcacttggcc ctggggcttg cccactagg | 120 |
| taccctgccg acctggccag gcaggctgtg cttggcttga gctcttgcc cagatccctg | 180 |
| cacttgctct gcggctgagc caggcatgcc atgacctact tccaccttgg gagccggcgt | 240 |
| ctggatgagg ggaatgctgt gacacttgaa cagaggtggg catgtgacct caaagccccc | 300 |
| aaagggggtg ttacagcatg ctaamagtgc tttcagtctc acatccacag cccaacaaat | 360 |
| ggagggtgtg ggtgccccaga ggtcccttct cccattgttt ggcaagcagg aggggtgtgc | 420 |
| tacagggtta cagctttgtt tgcacttgcc gtttggtggg tcctgagttc ttttcccatg | 480 |
| tccaagaata aggttgtgct gacagctagc ggttgagtga ggcaaagagt ttactcagt | 540 |
| aacaaaacag ctctcagcag agaaggaagc ctgagttgga cagcaccctt acctgaagtt | 600 |
| gggtagctct cccaccacct aaaagtgggt agcccaagt gtggctgagc ctggggcttt | 660 |
| tatatgctca gaatgggagt gtatgtgcta attggtttgt gagtatgcaa aaaaagctaa | 720 |

aaaaaaaaa aaaaaactcg a

741

<210> 775

<211> 951

<212> DNA

<213> Homo sapiens

<400> 775

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| ccccccccc | gagttttttt | tttttttttt | gcatttttatt | ttaaagtttt | attatgaaaa | 60 |
| cacacagaat | caamkgtgtt | atccatgtat | ttgcaacagc | agagaaacag | tgacagtgga | 120 |
| ccatcccat | aggggacact | tatccttttg | ctaaactaat | ataaataatg | gaaatgacac | 180 |
| ctaatacaat | aacacggcac | ataaaaaaga | ttaaattaag | agaagggaca | ggaactgcgg | 240 |
| agaggagtcc | tgagtatgga | ggagatgtgt | ctcatggaga | agcatccggg | ctcaggtgac | 300 |
| cttccctgaa | gacttcctgt | ctctgagcag | ctcagttcag | ttccaggtca | tacacgtact | 360 |
| cctggaccca | ggaytcactg | ggatcagcac | agacttgctt | gcttcttttg | gtttggaata | 420 |
| ccacagctgg | ctgggagcag | aggctgctgg | tctcatagta | atctaccaca | aagttgcgag | 480 |
| gaagcttcct | cgcggtgtaa | gaaaagcagc | aggcggtggg | agggtctgag | cccattggtg | 540 |
| ctgagagcgc | tggagagcag | aaggcagcta | ctagcatgag | gagagacagg | acagtcacgc | 600 |
| agagcttcat | ggtattggtg | gaaaagaggt | tttctcagag | gtgaggctgc | agaactcaga | 660 |
| agcttcagaa | cccagctgtg | tcctgtgctg | atactgastt | gggaatctct | ctttataggg | 720 |
| actctgaggc | ctaggacaaa | tgtgggggca | caggagagtg | agtggaattt | ccatggtaga | 780 |
| gatgaygtca | tgctcctgaa | gctagctgag | tgaggagttc | ctctcagctt | ctcttcccca | 840 |
| gggcgatgtc | atcatagagg | aaagatgagg | gaggtgcagg | cgagaagaaa | agggaaagtgg | 900 |
| tacagccaaa | ggcagtgacc | gagactgggg | agagagttgc | aaaccccaga | g | 951 |

<210> 776

<211> 990

<212> DNA

<213> Homo sapiens

<400> 776

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| gcatgccagt | gcctactctg | tgctgctgtg | gggccctggc | aatggtgacc | cggcctgcct | 60 |
| cagcgcccc | catggscggc | ccagaactgg | cacagcatga | ggagctgacc | ctgctcttcc | 120 |
| acgggacct | gcagctgggc | caggccctca | acggtgtgta | caggaccacg | gagggacggc | 180 |
| tgacaaaggc | caggaacagc | ctgggtctct | atggccgcac | aatagaactc | ctggggcagg | 240 |
| aggctagccg | gggccgggat | gcagcccagg | aacttcgggc | aagcctgttg | gagactcaga | 300 |
| tggaggagga | tattctgcag | ctgcaggcag | aggccacagc | tgagggtgctg | ggggaggtgg | 360 |
| cccaggcaca | gaaggtgcta | cgggacagcg | tkcagcggtc | agaagtccag | ytragraagc | 420 |
| cctggctggg | ccctgcctac | cgagaatttg | aggctctaaa | ggctcacgct | gacaagcaag | 480 |
| agcccacatc | ctatggccct | cacaggccac | gtcagcggca | gaggcgggag | atggtggcac | 540 |
| agcagcatcg | gctgcgacag | atccaggaga | ggtgagcctg | gcaggggttt | ggcaggcagg | 600 |
| gcagttggat | ggggggcgca | cagggcagct | ggaaaggggc | cccctcacct | gggctgagcc | 660 |
| acatctccct | ccccagactc | cacacagcgg | cgctcccagc | ctgaatctgc | ctggatggaa | 720 |
| ctgaggacca | atcatgctgc | aaggaacact | tccacgcccc | gtgaggcccc | tgtgcaggga | 780 |
| ggagctgcst | gttactggg | aymagccagg | gcgccgggcc | ccacttctga | gcacagagca | 840 |
| gagacagacg | caggcgggga | caaaggcaga | ggatgtagtc | cccattgggg | aggggtggag | 900 |
| gaaggacatg | taccctttca | tgccctacaca | cccctcatta | aagcagagtc | gtggcatctc | 960 |
| aaaaaaaaa | aaaaaaaaa | aaaactcgta | | | | 990 |

<210> 777

<211> 1932

<212> DNA

<213> Homo sapiens

<400> 777

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| aatttttttt | tttttttttt | tttttttgaa | aaaaaaaaatg | ggtagtgtat | attttgcagg | 60 |
| tttaagacaa | ctcaggacaa | taaaaacaat | ggactttaca | tgtgtatata | tatagctctc | 120 |
| ttaggcacca | taatcagtat | gagccaacaa | tatttaaact | tgattcaggc | cacattcaga | 180 |
| catttgctct | tatatacaaa | tatttaaatt | aaataacaatc | tgaaatgtgt | tctgttacat | 240 |
| acaaaaaagg | aaaaactata | caacycagag | cagtgtgtgt | gttttaaata | attacattta | 300 |
| catgtaagct | aaatggaacc | agcaatgggtg | ctcaagtttt | tatcatccct | tccagaaaat | 360 |

```

ctttttctac catctcttct attttttggc tggctttgct ggaacatggt ttgtggttct 420
ccagtttcat gtccttatta gggaaggcat ttgagtagag gataggactc cctgagtgtc 480
ctccacatcg gcttgtgact ttgctgttga agacttgact gagcacattg aagaacggca 540
ggagctgctc catactgcgc acggtgcaga tgggtgagcag caagtgccct ggctcccaac 600
ccaatgttct ccctgagttg tcttctctctg gatttttctg cagaaaacaa aaagtgaact 660
ggtattaata caacagacaa tgtggtatgt tagaaaaatt aaaaatatat aaactttggc 720
aattggtcaa gaaatgaata caaatgacat taagtttcta actcctgacc tgatcaaaac 780
ccttggtgct tctgagacct tttactgcc a tttattagtt ttacatggag cagtctaaca 840
ttgtagtaat agttcccaac tagaatgcgc agataagctt agttaacaga aatagctttg 900
aacaggaata gagtcaaaaca taaaagtttt atgttgtgct ttgtatttac tcaaaaagct 960
cccaggttct tgaaccttca ctactgtaac caaggactag gtcacaaaat tactacagaa 1020
aaaaggaaca aagtgtctta tacatttcat aatataatccc cttttattat aattagttaa 1080
ttccctttta tctaaatggc cttaaatttgc catgatggta gcagtgtcca aagtgaataa 1140
ttactgtcag tactgcatca cagagaaagg aagggatccc tcaggagaca ctgctgtctc 1200
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gttagtgtgc tggctctgcc atacttacgg cacccttggg caggatatac aaaggttcct 1320
cacttataaa atgggacagt ctaaaactac cttttagtag agaagtcaaa tgagaaggta 1380
tgtgaaaact ctgtcaacta aatataaaga ctaataatth gggtattaaag aggctagttt 1440
gagaagccac ctgaattaca caaacacagc tacagacatc attctgtcta gagaaagata 1500
agagagaaca ggttggttga acttgggcag aatcacagat acaattccac actaaagaat 1560
gaaaataaag aatgaactag acagaaggaa gaaatcatga agacttagga agcagaatta 1620
caatctgtca tattaacaaa tggagtttgc cttctaagat cagatgttgc tcagaaactt 1680
tcattgttta cctaataatt taatatcact agtttcctag tgggtcaagc agatgcaaaa 1740
tccagcttat tttcttctat gtgctctcaa gcttattgct tattttaaag taaaatcctg 1800
aaaaagggaa atattagggt ggtgcaaacg taattgcggt ttttgcattg ttgaaatttg 1860
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aaaaaactcg ag

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<210> 778

<211> 1636

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1624)..(1624)

<223> n equals a,t,g, or c

<400> 778

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gcttgctgtt cagccttggg ggccttctgg gctgggggct gctgggggca tggggccagg 120
cttccagtac tagcctctct gatctgcaga gctccaggac acctggggtc tgggaaggcag 180
aggctgagga caccagcaag gacccgttg gagctaactg gtgcccttac ccaatgtcca 240
agctgggtcac ctactagct ctttgcaaaa cagagaaatt cctcatccac tcgcagcagc 300
cgtgtccgca gggagctcca gactgccaga aagtcaaagt catgtaccgc atggcccaca 360
agccagtgt a ccaggtcaag cagaagggtc tgacctcttt ggcctggagg tgctgccttg 420
gctacacggg ccccaactgc gagcaccacg attccatggc aatccctgag cctgcagatc 480
ctggtgacag ccaccaggaa cctcaggatg gaccagtcag cttcaaacct ggccaccttg 540
ctgcagtgat caatgagggt gaggtgcaac aggaacagca ggaacatctg ctgggagatc 600
tccagaatga tgtgcaccgg gtggcagaca gcctgccagg cctgtggaaa gccctgcctg 660
gtaacctcac agctgcagt atggaagcaa atcaaacagg gcacgaattc cctgatagat 720
ccttgagca ggtgctgcta cccacgtgg acaccttctt acaagtgcac ttcagcccca 780
tctggaggag ctttaaccaa agcctgcaca gccttaccca ggccataaga aacctgtctc 840
ttgacgtgga ggccaaccgc caggccatct ccagagtcca ggacagtgcc gtggccaggg 900
ctgacttcca ggagcttggg gccaaatttg aggccaaagg cagggagaac actcagagag 960
tgggtcagct ggcacaggac gtggaggaa cgcctgcacgc ccagcacttt accctgcacc 1020
gtcctgatctc agagctccaa gccgatgtgg acaccaaatt gaagaggctg cacaaggctc 1080
akgaggcccc agggaccaat ggcagtctgg tgttggaac gcctggggct ggggcaaggc 1140
ctgagccgga cagcctgcag gccaggctgg gccagctgca gaggaacctc tcagagctgc 1200
acatgaccac ggcccgcagg gaggaggagt cctggaggac atgagggcca 1260
ccctgaccgg gcacgtggat gagatcaagg aactgymctc cgaatcggac gagactttcg 1320

```

```

atcagattag caagktgkwg cggcaggtgg aggagctgca ggtgaaccac acggcgctcc 1380
gtgagctgcg cgtgacctg atggagaagt ctctgatcat ggaggagaac aaggaggagg 1440
tggagcggca gctcctggag ctcaacctca cgctgcagca cctgcagggt ggcacgccga 1500
cctcatcaag tacgtgaagg actgcaattg ccagaagctc tatttagacc tggacgtcat 1560
ccgggagggc agagggacgc cacgcgtgcc ctggaggaga cccaggtgag cctggacgar 1620
cgngggcaag ctggac 1636

```

<210> 779
 <211> 645
 <212> DNA
 <213> Homo sapiens

```

<400> 779
tcgaccacg cgtccgccaa aagcagacat agcttcagat gcagcttgat ccagggctca 60
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cagccccctt cctcatatcc tcaagatggc agagacagcc catggtcttt cccttgacaga 180
gacagatcac caggaacaa tacctctatc cctagccatg aaacagtctt gaactttatt 240
ctgacttgat cagccaagtc cctgttgga ccatcactgc ctgacttagg cctgagacag 300
tgctgcacct ctactacaa aggccgggct ggccttccct aaagtgtatg tgctgcgtgg 360
gggagaggta cggatctgaa ccaaaacgag ggctgtccag cgtcagcaaa tatctccgcg 420
agtcccagtg cctccagcag gaggcaaac atcaaccctt ccgtctggct cctctactga 480
aaattccctc agcagcctca caggccttag gcttgtctta gctacttctt catctacttt 540
tttgccttct taattatttt tcttttcttt tttcttattt tattttattt tatttttagat 600
ggagtttcgc tccgtcgccc aggetgaagt gcagtttcag acatg 645

```

<210> 780
 <211> 729
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (725)..(725)
 <223> n equals a,t,g, or c

```

<400> 780
tcgaccacg cgtccggcca tttagaaata atcaactctt aatcagcctg ggatagtcag 60
tactaaaagc accttcatga gctgtgaaaa atttaatgca tttatttaca tatttagttt 120
taaatTTTTag tatattgtta gttgaggtat agtttccaaa caaagagccg tgaaatgttt 180
agtaactgtc tctgtacctc tggatgagga cagctcagcc gggaatggag ggggactggg 240
taggagacc agaatgtcag tggggccacg cagcacactt ttgttttgtc ttctgtcctt 300
gagcactggc ttgttcctgg ataaactagg cataataata cctatcctgc tgtgtgggtg 360
gaagttaaat gtgataatga tgtgtgtgag atgcctgcac agtgccctga ggtattgaag 420
aattattgct gcctwttctt tttctacctt ccacttacct gctacccccg ggtgctacat 480
gttagaaaac actgtgtaaa gtgtggatgc ttctgaaaaa tctccctgcc agcagttagt 540
gccaatagcg tgcagaaaat aagatgcaat gatttggctt cttttctgtt tggcaataag 600
aagcttattt gcmcatagcc tgatttcttt caatctgcaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
rgggngggcc 729

```

<210> 781
 <211> 997
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (855)..(855)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (881)..(881)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (916)..(916)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (957)..(957)
 <223> n equals a,t,g, or c

<400> 781
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 agcatctact taattaattt gcttacagcc gatttcctgc ttactctggc attaccagtg 120
 aaaattgttg ttgacttggg tgtggcacct tggaagctga agatattcca ctgccaagta 180
 acagcctgcc tcattctatat caatatgtat ttatcaatta tcttcttagc atttgtcagc 240
 attgaccgct gtcttcagct gacacacagc tgcaagatct accgaatata agaaccggga 300
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 aaggaatttg gaagaaattg gcatttgctg acaaaatttca tatgtgtagc aatattttta 480
 aattttctcag ccatcatttt aatatccaat tgccttgtaa ttcgacagct ctacagaaac 540
 aaagataatg aaaattaccc aaatgtgaaa aaggctctca tcaacatact tttagtacc 600
 acgggctaca tcatatgctt tgttccttac cacattgtcc gaatcccgtg taccctcagc 660
 cagacagaag tcataactga ttgctcaacc aggatttcac tcttcaaagc caaagaggct 720
 acactgctcc tggctgtgtc gaacctgtgc tttgatccta tctgtacta tcacctctca 780
 aaagcattcc gctcaaaggc cactgagact tttgcctcmc ctaaagagac caaggyaga 840
 aagaaaaatt aagangtgga aataatggct aaaagacagg ntttttgtgg taccaattct 900
 gggctttatg ggacntaaa gttattatag cttggaaggc aaaaaaaaaa aaaggngggg 960
 cgcctagag gttccccgag gggccagctt aggggtgc 997

<210> 782
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (422)..(423)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (437)..(437)
 <223> n equals a,t,g, or c

<400> 782
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 ttggccaccc tcctcctcct cctccttgga ggcgctctgg cccatccaga ccggattatt 180
 tttccaaatc atgcttgtga ggacccccca gcagtgtctt tagaagtga gggcacctta 240
 cagaggcccc tgggtccggga cagccgcacc tcccctgcca actgcacctg gctcacaaaa 300
 agagtgaac aaatgcttct attccatagc tacggcattg ctcagtaagt tgagggtcaaa 360
 aataaaggaa tcatacatct caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420

annaaanaaa aaaaaan

437

<210> 783

<211> 1084

<212> DNA

<213> Homo sapiens

<400> 783

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|------|
| ggatggcgct | acgtctgctg | cggagggcgg | cgcgcgaggc | tgcgggcgcg | gcgctgctga | 60 |
| ggctgaaagc | gtctctagca | gctgatatcc | ccagacttgg | atatagttcc | tcatcccatc | 120 |
| acaagtacat | cccccgagg | gcagtgtctt | atgtacctgg | aaatgatgaa | aagaaaataa | 180 |
| agaagattcc | atccctgaat | gtagattgtg | cagtgtctga | ctgtgaggat | ggagtggctg | 240 |
| caaacaaaaa | gaatgaagct | cgactgagaa | ttgtaaaaac | tcttgaagac | attgatctgg | 300 |
| gccctactga | aaaatgtgtg | agagtcaact | cagtttccag | tggtctggcg | gaagaagacc | 360 |
| tagagaccct | tttgcaatcc | cgggtccttc | cttccagcct | gatgctacca | aagggtgaaa | 420 |
| gtcctgaaga | aatccagtgg | gcagtgtgtg | aagaaaccct | gaaggctcgg | cctcaagtag | 480 |
| gtctctttct | agatgcagtc | cgtttttggg | ggaraagact | ttcgagccac | ataggtgcam | 540 |
| caagtartaa | agaaaccctg | gatawtctct | acgcccggca | aaagattgtt | gtcatagcga | 600 |
| aagccttttg | tctccaagcc | gtaratctgg | kgkacattga | ctttcgagat | ggarctkggc | 660 |
| tgcttagaca | gtcacgagaa | ggagccgcca | tgggcttcac | tggttaagcag | gtgattcacc | 720 |
| ctaaccaaat | tgccgtggtc | caggagcagt | tttctccttc | ccctgaaaaa | attaagtggg | 780 |
| ctgaagaact | gattgtgtgc | tttaaagaac | atcaacaatt | aggaaagggg | gcctttactt | 840 |
| tccaagggag | tatgatcgac | atgccattac | tgaagcaggc | ccagaacact | gttacgcttg | 900 |
| ccacctccat | caaggaaaaa | tgatctgtta | aatgaagctg | tcatacaggct | aaagggtatt | 960 |
| gaagctgcag | agggatcaac | ttgtgtctgc | cagaggacgc | caatgaagtt | tgaaacacca | 1020 |
| acaatcagag | atthttgttc | tgttcctcat | taaatcatga | gcttttgtgc | cgagaaaaaa | 1080 |
| aaaa | | | | | | 1084 |

<210> 784

<211> 1168

<212> DNA

<213> Homo sapiens

<400> 784

| | | | | | | |
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| ggcccatctg | ctgttgggtc | ttctgctagg | gaggatgtcg | ggttcgtcgc | tgcccagcgc | 120 |
| cctggccctc | tcgctgtttg | tggtctcttg | ctccctcctc | ccagggccag | gcgcgctca | 180 |
| gaacgtgaga | gtacaatctg | gacaggatca | gaagttagaga | atgaagtgtg | aagagaaagg | 240 |
| gaaagacaga | agaaaggctg | cagtagtaca | aggagaaaag | caggatgcaa | gaatgaggaa | 300 |
| tgaatctttg | tttgaggagc | atccggaaaa | atataagctg | tcagaaaagag | taaatagacc | 360 |
| agggacctct | aaagtaaatt | cacacatcaa | agttaaaata | atgttgaggag | atcacctcct | 420 |
| gtgaaaaatt | ggcttagctt | tcagtatgcc | tctttaaaca | aaacattatc | atthttatata | 480 |
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| gtgtaaaaac | attattctag | tgatattgat | gtctaaatth | aaaagagtga | atacacaagt | 780 |
| aaaatatatc | tgctttttta | ggatctattc | agtttaggaa | ggagagtcaa | aatttgtatt | 840 |
| taatttcaat | ttatttatatt | gtctgaaact | gaaagtaggc | ctaacttttg | tttgcttttg | 900 |
| tgtatgtaca | aaggcaaaca | tttatcaatc | aactcttatt | aatttgagat | tattttgacc | 960 |
| tgattgtctca | gaacttttgt | ctatctgtat | agaaatgggg | ttttctaaat | atthtaagaa | 1020 |
| tttctacgt | atgtaaatth | acttgcacac | agtaagtttag | gggagacatt | taatatthct | 1080 |
| cagataacctg | ctgttttctt | gttgtgtttc | ttgtttttca | aataaataaa | ctgagtgtta | 1140 |
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<210> 785

<211> 616

<212> DNA

<213> Homo sapiens

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3546

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<211> 1842

<212> DNA

<213> Homo sapiens

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<222> (1838)..(1838)

<223> n equals a,t,g, or c

<400> 787

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| tggtctnggc | gttggcggcg | ctggcggcgg | ctcgagcngc | ctgcgsagcc | ggtaccagca | 120 |
| gttgacagaat | gaagaagagt | ctggagaacc | tgaacaggct | gcaggatgatg | ctcctccacc | 180 |
| ttacagcagc | atctctgcag | agagcgacaca | tnattttgac | tacaaggatg | agctctgggtt | 240 |
| tccaaagccc | ccatcttaca | atgtagctac | aacactgccc | agttatgatg | aagcggagag | 300 |
| gaccaaggct | gaagctacta | tccctttggt | tccctgggaga | gatgaggatt | ttgtgggtcg | 360 |
| ggatgatttt | gatgatgctg | accagctgag | gataggaaat | gatgggattt | tcatgttaac | 420 |
| ttttttcatg | gcattcctct | ttaactggat | tgggtttttc | ctgtcttttt | gcctgaccac | 480 |
| ttcagctgca | ggaaggatg | gggccatttc | aggatttggt | ctctctctaa | ttaaattgat | 540 |
| cctgattgtc | aggtttttcca | cctattttccc | tggatatttt | gatggctcagt | actgggtctg | 600 |
| gtgggtgttc | cttgttttag | gctttctcct | gtttctcaga | ggatttatca | attatgcaaa | 660 |
| agttcggaa | atgccagaaa | ctttctcaaa | tctcccagg | accagagttc | tctttattta | 720 |
| ttaaagatgt | tttctggcaa | aggccttcct | gcatttatga | attctctctc | aagaagcaag | 780 |
| agaacacctg | caggaagtga | atcaagatgc | agaacacaga | ggaataatca | cctgctttaa | 840 |
| aaaaataaag | tactgttgaa | aagatcattt | ctctctattt | gttcctagggt | gtaaaaattt | 900 |
| aatagttaat | gcagaattct | gtaatcattg | aatcattagt | ggttaatgtt | tgaaaaagct | 960 |
| cttgcaatca | agtctgtgat | gtattaataa | tgctttatat | attgtttgta | gtcattttta | 1020 |
| gtagcatgag | ccatgtccct | gtagtcggta | gggggcagtc | ttgctttatt | catcctccat | 1080 |
| ctcaaaatga | acttgaatt | aaatattgta | agatatgtat | aatgctggcc | attttaaagg | 1140 |
| ggttttctca | aaagttaaac | ttttgttatg | actgtgtttt | tgacacataat | ccatatttgc | 1200 |
| tgttcaagtt | aatctagaaa | tttattcaat | tctgtatgaa | cacctggaag | caaaatcata | 1260 |
| gtgcaaaaat | acatttaagg | tgtggtcaaa | aataagtctt | taattggtaa | ataataagca | 1320 |
| ttaatttttt | atagcctgta | ttcacaattc | tgcggtacct | tattgtacct | aagggtattct | 1380 |
| aaagggtgtg | tactgtata | aaacagaaag | cactaggata | caaatagaagc | ttaattacta | 1440 |
| aaatgtaatt | cttgacactc | tttctataat | tagcgttctt | cacccccacc | cccccccca | 1500 |
| cccccttat | tttctttttg | tctcctggtg | attaggccaa | agtctgggag | taaggagagg | 1560 |
| attaggtact | taggagcaaa | gaaagaagta | gcttggaaact | tttgagatga | tccctaacat | 1620 |
| actgtactac | ttgcttttac | aatgtgttag | cagaaaccag | tgggttataa | tgtagaatga | 1680 |
| tgtgctttct | gcccaagtgg | taattcatct | tggtttgcta | tgttaaaact | gtaaaatacaa | 1740 |
| cagaacatta | ataaatatct | cttgtgtagc | acctttttaa | aaaaaaaaaa | aaaaaaaaaa | 1800 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aa | | 1842 |

<210> 788

<211> 1963

<212> DNA

<213> Homo sapiens

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<220>

<221> misc_feature

<222> (1959)..(1959)

<223> n equals a,t,g, or c

<400> 788

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| ggcggccatc | gagaccacc | caaggcgcgt | ccccctcgcc | ctcccagcgc | tcccaagccg | 120 |
| cagcggccgc | gcccttcag | ctagctcgct | cgctcgctct | gcttccctgc | tgccggctgc | 180 |
| gcattggcctt | ggcgttgccg | gcgctggcgg | gggtcgagcc | gcctgcgcag | ccggtaccag | 240 |
| cagttgcaga | atgaagaaga | gtctggagaa | cctgaacagg | ctgcaggtga | tgctcctcca | 300 |
| ccttacagca | gcatttctgc | agagagcgca | gcatnatttt | gactacaagg | atgagtctgg | 360 |
| gtttccaaag | cccccatctt | acaatgtagc | tacaacactg | cccagttatg | atgaagcgga | 420 |
| gaggaccaag | gctgaagcta | ctatcccttt | ggttcctggg | agagatgagg | attttgtggg | 480 |
| tcgggatgat | tttgatgatg | ctgaccagct | gaggatagga | aatgatggga | ttttcatggt | 540 |
| aacttttttc | atggcattcc | tctttaactg | gattgggttt | ttcctgtctt | tttgctgac | 600 |

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<211> 1487

<212> DNA

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<220>

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<400> 789

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| | | | | | | |
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| ggttataatg | tagaatgatg | tgctttctgc | ccaagtggta | attcatcttg | gtttgctatg | 1380 |
| ttaaaactgt | aaatacaaca | gaacattaat | aaatatctct | tgtgtagcac | ctttaaaaaa | 1440 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | ccccgggggg | ggccccc | | 1487 |

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<211> 1653

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<213> Homo sapiens

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<222> (1653)..(1653)

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<400> 790

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| tggtcttnggc | gttggcggcg | ctggcggcgc | ctcgagccgc | ctgcgsagcc | ggtaccagca | 120 |
| gttgacagaat | gaagaagagt | ctggagaaac | tgaacaggct | gcagggtgatg | ctcctccacc | 180 |
| ttacagcagc | atttctgcag | agagcgcaca | tnattttgac | tacaaggatg | agtctgggtt | 240 |
| tccaaagccc | ccatcttaca | atgtagctac | aacactgccc | agttatgatg | aagcggagag | 300 |
| gaccaaggct | gaagctacta | tccttttggg | tcctgggaga | gatgaggatt | ttgtgggtcg | 360 |
| ggatgatttt | gatgatgctg | accagctgag | gataggaaat | gatgggattt | tcattgttaac | 420 |
| gttttttcag | gcattcctct | ttaactggat | tgggtttttc | ctgtcttttt | gcctgaccac | 480 |
| ttcagctgca | ggaaggatg | gggccatttc | aggatttggg | ctctctctaa | ttaaattggat | 540 |
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| gagaacacct | gcaggaagtg | aatcaagatg | cagaacacag | aggaataatc | acctgcttta | 660 |
| aaaaaataaa | gtactgttga | aaagatcatt | tctctctatt | tgctcctagg | tgtaaaattt | 720 |
| taatagttaa | tcagaaattc | tgtaatcatt | gaatcattag | tggtaaatgt | ttgaaaaagc | 780 |
| tcttgcaatc | aagtctgtga | tgtattaata | atgccttata | tattgtttgt | agtcatttta | 840 |
| agtagcatga | gccatgtccc | tgtagtcggg | agggggcagt | cttgctttat | tcattcctca | 900 |
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| gggtttttct | aaaagttaaa | cttttgttat | gactgtgttt | ttgcacataa | tccatatttg | 1020 |
| ctgttcaagt | taattctagaa | atttattcaa | ttctgtatga | acacctggaa | gcaaaatcat | 1080 |
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| attaattttt | tatagcctgt | attcacaatt | ctgcggtacc | ttattgtacc | taagggtattc | 1200 |
| taaagggtgt | gtcactgtat | aaaacagaaa | gcactaggat | acaaatgaag | cttaattact | 1260 |
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| acccccctta | ttttcctttt | gtctcctggg | gattaggcca | aagtctggga | gtaaggagag | 1380 |
| gattaggtag | ttaggagcaa | agaaagaagt | agcttggaac | tttgagatg | atccctaaca | 1440 |
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| atgtgctttt | tgcccaagtg | gtaattcatt | ttgggttgct | atgttaaaac | tgtaaatata | 1560 |
| acagaacatt | aataaatatc | tcttgtgtag | caccttttaw | aaaaaaaaaa | aaaaaaaaaa | 1620 |
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<210> 791

<211> 1830
 <212> DNA
 <213> Homo sapiens
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 <222> (67)..(67)
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<220>
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 <223> n equals a,t,g, or c

<400> 791
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<210> 792
 <211> 708
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (14)..(14)
 <223> n equals a,t,g, or c

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 aatcagcaat ctcttccatt gcttgtagaa atactgactt aggccaggca cagtggctca 360
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<210> 793
 <211> 2027
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (294)..(294)
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<220>
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
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 <222> (2021)..(2021)
 <223> n equals a,t,g, or c

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 ggcaggcggc cgaggagcc tgcctcctgc gaggtggggc gctcagcacc gtgcgtgcgg 240
 gcgcagagct gcgcgctgtg ctgcgctcc tcggggcagg cccaggggcc ggagggggct 300

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<210> 794

<211> 699

<212> DNA

<213> Homo sapiens

<400> 794

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tgcccttaata gtcacaaaact taatcctaata taaatacata cctttcccct aagttttctt 180
atcttcaggc tacagaatta ttgagattac tctcaaccat tctcatggt agaaactctt 240
tctcaattta tttccatcct ctttgcctt ctctggataa tctcagattt gatactgtgt 300
tttcttaaat gtggaatcc cggaactcta gatattgggtc ttcctatttg gactaatcag 360
tatatacatt ccagtagatc cattttgtcc tttatctaga tacagtattt ctagtagctt 420
gaaasycaat gcctttttaa agttgtttta ggattaaaaa tcacaaacca aatatccact 480
gtcctcaaga gaatcaccta acaccataa ggattcttgt agactcatgg taaaggggta 540
gctattgttt tatatcagat agcaggagta gctattcttt tatatcagat aaaacacatt 600
aaagcaacat gaataggcat ttgttaaaag raggatattc caaatagtca acacatatta 660
aaggaattcc ccaaccatcc actaaatgat ccaggggaa 699

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<210> 795

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1249)..(1249)

<223> n equals a,t,g, or c

<400> 795

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| gcacgagggga | tctgtgtggc | atgggtatgtg | tgtttatgtg | tattgtgggt | gtctgtgtgg | 120 |
| catgctgtgc | gtgtgtgtat | tgtggatggt | tactgtcccg | ggcagtagaa | aggacgtcgg | 180 |
| ggaagcagcc | ccagcatcag | ggacaggcca | ggagtgcaga | atgcatggaa | gctggtcagg | 240 |
| tcgagcctg | ggatgaagga | agcacagaga | tgcaagggtg | ccagggccca | tggaaaccaag | 300 |
| agccgatgat | caaggccaca | gtgcacacag | ccctggaggc | aaaggacata | ttcatttcac | 360 |
| aaggattaaa | aagcatgggc | caaggctggg | ccccaggcca | ggactgggga | tacagagtgg | 420 |
| atcagtcccc | atccctgccc | ccagggtgctt | acccacaccc | attcacctca | cagggtttccc | 480 |
| cacccagccc | ccttggcgag | ctcctcctca | ttcctcaaar | cgctcgctkag | gtcacgctcc | 540 |
| ttcccagggc | ctctccccc | cctctaaaac | accctctccc | tgctgcccac | ttgcagcaca | 600 |
| gtcagagagc | tccgtggcct | gtttccactg | gactgagtct | tctggggggg | gctggtgcag | 660 |
| agcagarccc | tgggctggga | gtcccggcac | ctcgtttccac | tccctcacc | acagcctcgc | 720 |
| tgtttaacct | caggcaggcc | gtgtmcctcc | tcagcctcac | tttccccttg | tgtaaaatga | 780 |
| gggaagggac | tgcgccttct | aagccatctt | tcagcttaaa | acctctttga | ccttctatct | 840 |
| ggctaattga | ggtgctgacc | aggggcaaga | agggatttga | aaaacgcttt | gaaaaattca | 900 |
| tagcaggagg | caaaggagaa | agagtcttta | ttttcgtaga | gcgggaggca | ggaggagtta | 960 |
| tggacagagg | ctgtcgatga | aaaggacagc | atctcagagc | actttgtggc | atttaattgc | 1020 |
| taatgcctcc | tcccattaaa | gcagtggcat | caaataattta | ccaaagcagc | attaaaaatt | 1080 |
| aacctttacc | atggggatgt | ataaaggccc | taagtccct | gagaagtgc | cgaacatcag | 1140 |
| gagggtaaag | tgacaggaag | gaaggctaca | agcgggttgt | gaataatgga | agcccccaa | 1200 |
| ggtcccccaa | cacagctccc | tgttgacccc | actcccaaag | ccagggcanc | ctccggccgt | 1260 |
| gtctctgcag | aggctcccag | cccttcggag | actccagag | ggcctgcagg | ataaggacag | 1320 |
| gccctcagct | gggcatccac | agccttccat | ggcctggccc | tgctctctg | ggcagctggg | 1380 |
| atctgtagga | tggaaaggaa | tgagtctgtc | ggagtggaa | gagaccaggg | gaggaagtgg | 1440 |
| ggagtgtgcc | gggcactgga | aatagcacgt | gcagaggcac | tgaggcagag | acagctgcac | 1500 |
| atcaatccat | cagaagagca | gccagggtggc | atgagtgtgg | gggaggaagg | aagcgcagga | 1560 |
| ggggacaggt | gggagatgca | ggtaggtctg | actgtgcagg | gccatggtaa | gatgtgggct | 1620 |
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<210> 796

<211> 1570

<212> DNA

<213> Homo sapiens

<400> 796

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| tgcgtgtgtg | tattgtggat | gtttactgtc | cggggcagta | gaaaggacgt | cggggaagca | 120 |
| gccccagcat | cagggaacag | ccaggagtgc | agaatgcata | gaagctgggtc | aggtcggagc | 180 |
| ctgggatgaa | ggaagcacag | agatgcaagg | gtgccagggc | ccatggaacc | aagagccgat | 240 |
| gatcaaggcc | acagtgcaca | cagccctgga | ggcaaaggac | atattcattt | cacaaggatt | 300 |
| aaaaagcatg | ggccaaggct | gggccccagg | ccaggactgg | ggatacagag | tggtacagtc | 360 |
| cccatccctg | ccccagggtg | cttaccacaca | cccattcacc | tcacagggtt | ccccacccca | 420 |
| gccccttggc | gagctcctcc | tcattcctca | aaacgtcgtc | gaggtcacgc | tccttccga | 480 |
| ggcctctccc | catectctaa | aacacctct | ccctgctgcc | cacttgcagc | acagtcagag | 540 |
| agctccgtgg | cctgtttcca | ctggactgag | tcttctgggg | ggtgctgggtg | cagagcagag | 600 |
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| cctcaggcag | gccgtgtccc | tcctcagcct | cactttcccc | ttgtgtaaaa | tgagggaagg | 720 |
| gactacgcct | tacatcttca | gcttaaacct | ctttgacctt | ctatctgggt | aatggagggtg | 780 |
| ctgaccaggg | gcaagaaggg | atttgaaaaa | cgctttgaaa | aattcatagc | aggaggcaaaa | 840 |
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| attaaagcag | tggcatcaaa | tatttaccaa | agcagcatta | aaaattaacc | tttaccatgg | 1020 |
| ggatgtataa | aggccctaag | ttccctgaga | agtgaccgaa | catcaggagg | gtaaagtgc | 1080 |
| aggaaggaag | gctacaagcg | ggttgtgaat | aatggaagcc | cccaaagggtc | ccccaacaca | 1140 |
| gctccctggt | gacccactc | ccaaagccag | ggcagcctcc | ggccgtgtct | ctgcagaggc | 1200 |
| tcccagccct | tcggagactc | ccagggggcc | tgcaggataa | ggacaggccc | tcagctgggc | 1260 |
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| agagcagcca | ggtggcatga | gtgtggggga | ggaagggaagc | gcaggagggg | acaggtggga | 1500 |
| gatgcaggta | ggtctgactg | tgcaaggcca | tggtaagatg | tgggcttctc | ggtccaggga | 1560 |
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<210> 797
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<210> 798
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 attattgkca ttattgktat cctataactt gncattttca agacaacctt tggagagaag 900
 ggggaaaaaa cacatgggct ctgatcccat ctcaaactgg aaccacactt tttgattctc 960
 agtgtagagc tcattagtgc tgctgggtt acttycatca gcaaaaacaa ctctggtcta 1020
 ggacttccta aaataacaga ggccagaaac tcttttctct agcttgccaa acttggtgct 1080
 ttccatgact ttgaaaaatac ctgtgcttta rcctggaaca ctcttcctac tactcttgcc 1140
 tacttaaaaa attctaactt atccctcaag tctcagatga agaagtactt gttctatgca 1200


```

gctccacgg attcactcag acagcaagta ccacagagtc agtatttttc aaaataatgc 1260
ctgagagttc cttagatcag tgagtcatgt ccttcctgc acaccagcta ccaccaaagc 1320
caagccaata aagcctcgtg ccgaattcgg cagcaggaaa aaaaccctca aaaaatgact 1380
gaaaacttct ttaaatgtgt gtttgaaaga gacaaggaag ctcttcgtaa aatttgktca 1440
gttaatctaa ctgaggccca tttaaaaatg taccaatcag cttatatggt aaatatctaa 1500
gaaactgcat ttaggnnttt ctcaacctga atctgcagac tcaagctaty cacatacaat 1560
ttgnatgagc accaagawta gcaagccata ctgstctgat tcatctgatt ttaatggaac 1620
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<210> 799
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (435)..(435)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (445)..(445)
 <223> n equals a,t,g, or c

```

<400> 799
ctcaccagta gctntacngc tctgacycwt ctgattwtaa tggaaccctt ggggattgac 60
tcaatgcagc tgaatggytt ttctctatat taaattgtcc ctaatgtgac tggctacatc 120
ataatattat agactatgga ctatttgtca tagatgtttc tatgtttgct tctctgcaaa 180
tttaagaaag ttaactatct tcttaaagtt ttgatttcta atttctcgat ttgggcatac 240
gaccaccact agcaaatgtc atcagagtac aaaaaatgga aacagaggct atcattaata 300
atacattact tcactattga cgggatgacc gtgggttttg aagcttatga gttcaaaagt 360
cctctttaa gtatttttca attctgctcc cgaagtgggt gaagtgtgtg gtggtggcca 420
accaaccaat taatnggttg ggttncc 447

```

<210> 800
 <211> 641
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n equals a,t,g, or c

```

<400> 800
aacncccttt naggattttt cacctctgct cccgaagtgg gtgagtgtgt gtgtgcacmc 60

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atatgtgtct gtgtgcatct gtacagaggt ttcagcctgg cttacattta gcacagtagc 120
ttccttttaca ggagactttt tgcgagcatc agtggttcat ttcacaactc accatgtgta 180
ctaatgctaa agatacagat tacagtgtaa gaactggagt aattatagcc ttccaaatcc 240
taaactctca aacttcctta tttcacaggg caccattagt ttacttcccc aaagctgatt 300
tcagcatttt agcagatgtt ttgtgaatgt tgtaaatggg tacaaaatgg aggacatcct 360
aatgttgaga gtagtaaata tcattgtcat gaggcctaagg cttctctata cacattagaa 420
gaaagtactc tctaaagaga atgggttagaa gttaacaggg aatacatcac tattgtaata 480
atcataaaaa agcaattgca cgccagtgtt agacagtctc tgggtaacca ggtgctaata 540
atcttactat attaatgaag acttcaagtc atactgggtc actcatttgg acagtatttg 600
cttcagcact aggaaggctg atgtcttctt tttaaactcg a 641

```

<210> 801

<211> 1763

<212> DNA

<213> Homo sapiens

<400> 801

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ccacgcgtcc gattcaagt atcaagattt taaaatatga aaagaaactg gccaaaatgt 60
gctttttaat gatattcacc ttctgtgtct gttggatgcc ttatatcgtg atctgcttct 120
tggtggttaa tgggtcatgt cactgtgtca ctccaacaat atctattgtt tcgtacctct 180
ttgctaaatc gaacactgta tacaatccag tgatttatgt cttcatgac agaaagtctt 240
gaagatccct tttgcagctt ctgtgcctcc gactgctgag gtgccagagg cctgctaaag 300
acctaccagc agctggaagt gaaatgcaga tcagacccat tgtgatgtca cagaagatg 360
gggacaggcc aaagaaaagt gactttcaac tcttcttcca tcatttttat catcaccagt 420
gatgaatcac tgtcagtga cgacagcgac aaaaccaatg ggtccaaagt tgatgtaatc 480
caagttcgtc cttttagtag atgaagaatg gcaacgaaag atggggcctt aaattggatg 540
ccacttttgg actttcatca taagaagtgt ctggaatacc cgttctatgt aatatcaaca 600
gaaccttgtg gtccagcagg aaatccgaat tgcccatatg ctcttgggcc tcaggaagag 660
gttgaacaaa aacaaattct ttaattcaa cgggtgcttt acataatgaa aaaaccactt 720
gtggcacacg atgggcatct aacatcatca tcttctaata tgttgagat tttcatttca 780
aatatatttt ttaaattact ctattttcca aaacacgtaa tgcatttttc tcgaaatac 840
cttactgtaa aaataactgt cgcgtacaca tgtgtgaagt agctagaaca tactgaattt 900
ttttttgtac ttttggactc tattcagtgt catgtcctat atctgatcaa gttatcaagg 960
agataattct agaatgaaaa agaaaatcct cttgttgaa acaaaagacg ttttatatgt 1020
gcagtatgac aaagaggagt ttcagagaca actttgaatc cttgtcagcc tggagaccag 1080
caccagagga atctacaagg caaactccca tatatttgct tcccccaat tgcgtgccct 1140
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cgatgctata taagccaggg agttctaaga cgccagctct ttgagatttg ctcatcctcc 1260
tgtattttcc acatatatat tacatatacc cgctaataaa tttatgtttg tttttctctt 1320
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aattattttt tctttcccta caaactgaac atggattatt agaactcaag gttttcattg 1440
acaatataga aaagaaacac tgaatcattt tattttattg cccaattttt atttcttata 1500
tgactctagt gtttcatctt cataattaat catgtttgaa ggatttctga gtgactcagc 1560
agcctgttaa agaaggatga accaaagaaa acatttcact aaatgtgctt ttaaaaaatca 1620
agtgtattgc tggttctgct gcagtatgta gtcgaagaat aaattagtaa attgcttctg 1680
agggctctgaa attgaataaa gtaatggctt tgtatttcta taaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa aaa 1763

```

<210> 802

<211> 1274

<212> DNA

<213> Homo sapiens

<400> 802

```

gccccgcgt ccgctgttgc tcaaaggaaa taggagtgg tgtgcttggt accaaggggt 60
tacacttmca gcttttaaaa ttctccttta catgtgtctca gtgttttkt ttgtgttttg 120
gtttctgttt tttattttta ttcccacatt gggcacaaga atcagaatat ggatagctag 180
tttaagaaac ttttgggggt gcactgtagc atagatgaca gaatttgatg ttcccccat 240
ctccaattca gttcagggca ttccacagtt aaacagaaat gggaaactgg ggctcttata 300
aatgaatggg cgctcacagt tttgttttct agctcttcat gtctgtaagt gtgctttggg 360
graggctatg tctgtatggg cgattctcag ttatcacatt tgcctctcct cccactacct 420

```

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|------|
| tcattgamcat | tcagtgcgtgt | tcgcactgca | gtagagaga | agggacggac | agttgggtgac | 480 |
| actcagccac | attgctactt | ttatctgttc | tggtagaag | ttagatagat | ggtagattga | 540 |
| agcaattggg | tagaattagt | tgggggaata | tttatgagtt | gctgtgtttg | ttgattagtt | 600 |
| ccatctcttt | cccatTTTTaa | ctgagaattg | attatatata | gctctaagta | tataggtatt | 660 |
| taaacaaccc | cacaagcggc | tgtatcagta | acatttatta | attccactat | agtgagggag | 720 |
| gattttccatt | ctaaataacct | tattttgagg | gatttataaa | acttagttgt | aaaagagaaa | 780 |
| gccacatag | tggaataaaa | ttgcttcagc | catttttagt | atttgagagc | actagggaaag | 840 |
| atgttttagta | gctgtgtgga | tgcctttttt | cacaccctgt | ctattgaatg | ctgcatccat | 900 |
| tcacgaagtt | aaatgttaca | tgcagttagt | ccttaatgtg | gactggatct | gtacttttgt | 960 |
| tttggtattaa | aacattttaa | gatttttgaa | gtgcagctac | tccccacgtg | catttgmtac | 1020 |
| acataaaagt | catactgtgt | gtgcacaaag | agtacatgga | ttttccagca | taytgcttta | 1080 |
| aaaaattata | taactgtta | aaatattaac | acctcaggct | acctgctgta | ttctgtccca | 1140 |
| ttgaccctcg | gaattggatt | tactgcaagt | gattgataat | tcaattatgt | ggcttttccc | 1200 |
| ctttaatctt | gccattttaa | ttacagtaga | aagacaaaat | caagtaaaat | aaagtgttag | 1260 |
| ataatagaaa | gagt | | | | | 1274 |

<210> 803

<211> 847

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (20)..(20)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (24)..(24)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (37)..(37)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (49)..(49)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (96)..(96)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (116)..(116)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (193)..(193)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (199)..(199)

<223> n equals a,t,g, or c

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<400> 803
gcttaacttc caagttgggn taanttggcc aaattcnagg accccaatnt taattgcccc      60
aagaggagc caataccttg aagaacccaa gtgttnactg cttgcagtta cccgtnttaa      120
acccggagaa ccctgtgcgg aatcctgaac ctgcgctgtc tgggtggcca cacagagccc      180
gtggtgctgc cgnatcna cagctgccag tgcagctcct gccaggggac ggggtttcgc      240
catgttgcgc aggtctgttct tgaactcctg ggctcgagt atccacctgc ctcagcctcc      300
caatgcgctg gggttacagg caggaaccac tgcaccagc ccctgacct catcttttaa      360
gcaaggctga cattgctatg caggcttgtt ggggtgactt ggtgaggga cgcgtgtgaa      420
gtggctggca ggtgcctagt tctgttaagc acctgccata tgataacctg aggtccact      480
gtgtggcaga tgaaggggaa acagaggtgg aaggcaccgc tgcacctgg gtggagcaca      540
gtggaaggcc tgggtgtggt tctgggcgtc ctctggcac cagcctgacc actctgcctc      600
tcttactaac ccatctctcc ctcagctgtc ccctgggagg tgacttctca aagcgctaac      660
aggctccgct ggggtagctc acagctgtcc ctcttgtgat catgggactc agcagcactg      720
accacgtcct tccacgtctc ctcacctgcc cccaactggg ggcccatgac ttggcattag      780
catgttccaa ataaagtgat actggcaaca aaaaaaaaaa aaaaaaaaaa actcgagggg      840
gggcccgc                                         847

```

<210> 804

<211> 652

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (392)..(392)

<223> n equals a,t,g, or c

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<400> 804
aattcggcac agggggggcca ccacaccg cctgtacatg ctgttttgca tcttcttta      60
tacgttgggg agtgccagat gtcaccatct ttcgttcttc ctctggggct ggtcaaatec      120
ccctgagaaa actcctctgg cctcctggcg ggggtgtgag gccaggctgc caggggccagg      180
ctgccagctt ctgggagctg caggggcaga ggcaggagc tgtcaggcat tcagccagca      240
agacgcactc agtaccactc tgggggttcag aatccccctc cctcatcttc agatgggcca      300
gatgtcccca aagccagcgg ccctttctg tttcaccctg tctacagaat aaacccccag      360
tacttggggg tgggggaaga gtaaggggag angggaaacg agatttgagg gtctagtgc      420
tgctgaaaca gccctcagtt cgtctttatt ttgccttctg caaaactggc ctgggtgttc      480
cagctccttt tgaggacttt gctamcggtt ctcagcatcc ctcaattgct ggcttaggat      540
tcattgggtt ttaggggttg ggtgggatta gcatgtccag ctgctttcca gtttccaaag      600
ttctgtccct atcatattgc ctctgattta aaaaaaaaaa aaaaaaactc ga          652

```

<210> 805

<211> 1124

<212> DNA

<213> Homo sapiens

<400> 805

```

gattgcctac aaatgtcaga ggtataatgg tttggttttc atgctggctt ctcacacagt      60
ccatcacagt gattcttggg gccagaggga ggtatggaag actgtgtgtt ctccaaggga      120
ggcactgtgg tctggtggat aagagtggga gtcccaatcc tttctccgca gatgtgctag      180
ctgtgcactc tgggcaagtt tctcactctc ctgagcctca gcgtctttat caatatgacg      240
agaataaata cagcacctgc ctacctatg gggttgtttc agcagtcaat gagatcatgt      300
atatgaagca tttagtatac ctagcaccta ataaaagctc aacaaccagt agtcttatta      360
ctaacaaaat ggagctagaa ggatgcatta gtttaaacia aatcttgagg cagatactgg      420
gagtacctgt ctttattctt caacttgagt ctctcccg tttgtttgga taaaaactca      480
aatgtaatat ttttaatttg ggtaaaagaa ctctgagaa aggggtgaac atctatccac      540
ttgccttttt atgcctaggg aactagagat acttgttggc ggcatcgcaa atgttgctga      600
cttatgaagt actgcagtat ctgaatacct tttttaggga taatctaaag tttccaaaaa      660
atagtatagt gttgtagtga agaacttgga ctcttaagcc agattatttt gttcagattc      720
agaaatcccc tccactccac ccactggctg tatagccttg cccaaatcac tgaatctctg      780
tgtgtctcgc tcttggtgtg tgaaatgagg acaatagtag ctattgggta ggggttgccct      840
gggggtctaag tgatgactgc ctgtaagggt tttagaacag tatttggtta acaactggca      900

```

```

ctcaatcagt gttgctgtga ttatgatgat ttattccaag gttgcttgct ttccagtaca 960
tcatagacta ctacttgacc aaatttacta gcaatggagt acctgaaagt ttacatgtg 1020
cacatttgca tgaaaacccc acaaaatttc cctttgaaca gtgaagggga cggcacaaa 1080
ataattcttg gactaagct taaaaaaaaa aaaaaaaac tcga 1124

```

<210> 806
 <211> 660
 <212> DNA
 <213> Homo sapiens

```

<400> 806
gcacgagacc aagcaaagcc tacttagttt agatctccag aaattggctg gtggaaaaaa 60
atcaaacatg aagattgcag ttttgttttg ttttttctg cttatcattt ttcaaactga 120
ctttggaaaa aatgaagaaa ttcctaggaa gcaaaggagg aagatctacc acagaaggtt 180
gaggaaaagt tcaacctcac acaagcacag atcaaacaga cagcttgga tcccgaaaac 240
aacagttttt acaccagtag caagacttcc tattgttaac ttgattata gcatggagga 300
aaagtttgaa tcctttcaag ttttcctgga gtagaatcaa gttataatgt gttaccagga 360
aagaagggac actgttttgt aaagggcata accatgtaca acaaagctgt gtggtcgcct 420
gagccctgca ctacctgcct ctgctcagat ggaagagttc tttgtgatga aaccatgtgc 480
catccccaga ggtgccccca aacagttata cctgaagggg aatgctgccc ggtctgtccg 540
ctactggtac agagcttttag ctaagcaaaa tatcagtgtg tgattaatct ttaacttcca 600
tttgtttttg ttactaattt tagattaaaa ttatgataca ttaaaaaaa aaaaaaaaaa 660

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<210> 807
 <211> 1424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1391)..(1391)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1406)..(1406)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1415)..(1415)
 <223> n equals a,t,g, or c

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<400> 807
gaattcggca cgagtggcta tatatttctt cacttgcaat tgcctcatgg gggtcttata 60
aggctgaaat ccaataacgg atacaaaaat actttaaaaa gtaggcatgg atttctactg 120
acagccatga gagagtttct agaactagac ctggatggcc ccaaacact agaaaattgg 180
acaaaagata taaaaaaaaa actgttttca accattggac agtagtcagc ataggactct 240
tatctttgag agaaggggca aaaacaagat gatccctata agcttcctta atttctttt 300
tttctttttt tgagacgctg tctccaaaac aaaacaaaag aataggacaa tctcgtattt 360
cctctatcta gactcaacaa ttcttaatat ttgctttatc cctgtctttc tacacatgca 420
tacacataca cacacacagg catacataat tgcataatga caggggtgtt ttgctgatct 480
atttgaaagt aagtttcaga cattatgaca cctactccta attcctcatg ttttttctaa 540
gaataaggat attatcttac ctaacatatc ttttatcaaa cctacaaaaa ttaacaattt 600
tatatcta attagttcat gtttaggttt tgcctgtttt ccccaaatg tcttttacag 660
tacatgtttt taaaaccagg atctaaggag ttcacagatt atatttggtt attatgtctc 720
tttagtgtct tttggcatcc ttgggttttc tactttatc ccccatgaca ctgactattg 780
gaagagtcca gaccaatttt ctatttgatt gcttccytgt gtgtatcatt taatttgttc 840
ctctatctca tgtgtttctt gtaaaactgaa agttagggtg agagattgag tctaaatatt 900
tttggaagt atatgtcgta ggtaacattt gtgctttata ctgcatcata ttgggagata 960
aataatatta tattgccatc tctgttagtg cagccattag aaagacattg tgcctatgtc 1020

```

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| tgtctctttg | ctgtgtttgg | tatctgttga | gagccatatt | tttataaaaa | tcttaaagca | 1080 |
| ttgtcctctg | tgaagaaaat | atattagaaa | aattacactt | gacagtataa | gaattgttga | 1140 |
| tttgaataaa | tacatgat | ttagaagaca | tatgtatgac | cagcaggaat | agtagcctaa | 1200 |
| taggcctttg | tttgggacag | aatacacttc | agatcatcca | gaaatctaaa | atcaggcctg | 1260 |
| tgtgcctttg | actggatatct | tccatgtggg | gttgaagagt | ttgagaat | aaaagaaaat | 1320 |
| gaattaatac | taagcaagac | acactttttt | ctttgttcct | taaaaaaaa | aaaaaaaaar | 1380 |
| actcgagggg | ncccttggtg | cccganctca | agggngcata | gtcg | | 1424 |

<210> 808

<211> 2409

<212> DNA

<213> Homo sapiens

<400> 808

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|------|
| ccacgcgtcc | gcttcgacga | cgacacctgc | agaagtgcgg | acccgccatg | ccgcgccacc | 60 |
| tctcgggact | gctcctgctg | ctctggccgc | tgctgctgct | gctgccgccg | acccccgccg | 120 |
| ccccggggcc | cctggcccg | ccgggtttgc | ggaagtgtgg | cacgcggggc | ccagggggca | 180 |
| gtcccgggcg | cgccctggc | tctgtgttcc | ccaccgcgc | gccctattcc | ggggccggcc | 240 |
| agccccggcg | ggcccgaggc | gcagggtgtt | gcaggagcag | gcccttggat | ttggtgttca | 300 |
| tcatcgatag | ttcccgcatg | gtcgggcccc | tgaggttcac | caaagtgaag | acctttgtct | 360 |
| cccagataat | tgacactctg | gacattgggg | cggcagatac | acgggtggca | gtggtgaact | 420 |
| atgctagcac | cgtgaagatt | gagttccatc | tccagaccca | ctcagataaa | cagtccttga | 480 |
| aacaggctgt | ggctcggatc | acaccctgt | ctacaggcac | catgtccggc | ctggctatcc | 540 |
| agacagcaat | ggatgaggcc | ttcacggtgg | aggcaggagc | tcggggggccc | acttccaaca | 600 |
| tccctaaggt | ggccatcatc | gtgacagatg | ggaggcccca | ggaccagggtg | aatgagggtg | 660 |
| cggctcgggc | ccgggcatct | ggtattgaac | tctacgccgt | ggcgtggac | cgggcagaca | 720 |
| tggagtccct | caagatgatg | gccagcgagc | ccctagacga | gcacgttttc | tatgtggaga | 780 |
| ctacgggggt | cattgagaaa | ctctcctcta | gattccagga | aaccttttgc | gctctggacc | 840 |
| cgtgtgtgct | tggcacacac | cggtgccagc | acgtgtgtgt | cagtgtggg | gaaggcaagc | 900 |
| accactgtga | gtgcagccaa | ggctactcct | tgaacgccga | tcagaagacg | tgttcagcta | 960 |
| tcgataagtg | tgctctgaac | actcacggtt | gtgaacacat | ctgtgtgaac | gacagaactg | 1020 |
| gctcttacca | ctgtgagtgc | tacgaagggt | acaccctgaa | ccaagacagg | aagacttgtt | 1080 |
| cggctcaaga | ccaatgtgcc | tttgggtacac | atggctgcca | gcacatttgt | gtaaatgaca | 1140 |
| gagatgggtc | ccatcactgt | gaatgctacg | aggggtatac | tctgaatgct | gacaacaaaa | 1200 |
| cgtgttcagt | tcgcagcgag | tgtgtctggg | gctcgacagg | ctgccagcac | ctgtgtgtgg | 1260 |
| acgacggggc | cgcggcctat | cactgcgatt | gtttcccccg | ctacaccctg | accgaagacc | 1320 |
| ggaggacgtg | cgcagccatt | gaagaagcac | gaagactcgt | ctctacagaa | gatgcttgtg | 1380 |
| ggtgtgaagc | caccctggcc | ttccaggaga | gggccagctc | atatctgcag | agactgaatg | 1440 |
| ccaaactcga | tgatattttg | ggcaagttgc | aagcagatgc | gtatggacaa | atacatcgtt | 1500 |
| gaattactca | gatttttcac | ctggatatac | ggagagcttg | gtctatttaa | tatttttga | 1560 |
| tacttcaatg | ttcctgctaa | taatttgcca | ttgcaaatgc | tttaataatta | ctggataagt | 1620 |
| agtatgagga | tcttctagag | aatcagtagg | acataaacgt | tcacatcctt | aagagcaaac | 1680 |
| tttagtgtct | ctaagctatg | actgtgaaat | gattcatggg | gaatagaatg | aaaagtttgg | 1740 |
| tatctcttta | tttaccattt | gagccattta | atttttaaat | gtttatatta | gtataaacca | 1800 |
| cattcttaca | atgggaactt | tttatctatt | ttctcttgat | agtatttata | gtataaacca | 1860 |
| gtttttattat | tgagagtgtg | aattatacaa | gtattttacac | ataaaaaagt | tcatataatt | 1920 |
| gaggtaaaata | taatttagaa | ctgtttcttt | aatgctttgt | tttttgctca | ctttttgtcg | 1980 |
| gaatatcact | gaagctgtga | tcaggggatt | ataacacata | tcaagatcaa | gtgaacacta | 2040 |
| catgaaatat | tgtaagaaac | acataactaa | agactttagt | tttgaattaa | gtgttataac | 2100 |
| ttcttaccaa | gttttggtaa | aaaatcctac | attatcttta | ctgtttcact | ttaggattca | 2160 |
| atcaagaaaa | ttatatactt | ataaatattg | atctaaaaag | ttaacaacaa | acccaatgtc | 2220 |
| gccatttttaa | agtttaagct | taacttttct | tcacttacat | atttagtata | tgtattttat | 2280 |
| ttttccgctt | gaaagcttat | agctcttagg | agaaaacat | cctttaaatt | gtgactactc | 2340 |
| attttttctg | tttgtattgt | ctttagtata | ataaaaagt | actatcttta | taaaaaaaa | 2400 |
| aaaaaaaaa | | | | | | 2409 |

<210> 809

<211> 876

<212> DNA

<213> Homo sapiens

<400> 809

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| caggtaccgg | tccggaattc | ccgggtcgac | ccacgcgtcc | gcttcgacga | cgacacctgc | 60 |
| araagtgcgg | acccgccatg | ccgcgccacc | tctcgggact | gctcctgctg | ctctggccgc | 120 |
| tgctgctgct | gctgccgcgg | acccccgcgg | cccccgcccc | cctggcccgc | ccgggtttgc | 180 |
| ggaggctggg | cacgcggggc | ccaggggggyw | ktcccgkxcg | ccgccctgkc | tctgctgtcc | 240 |
| ccaccgcgcg | gccctattcc | ggggccggcc | agcccggcgg | kgcccagagg | gcaggtgttt | 300 |
| gcaggagcag | gcccttggat | ttggtgttca | tcacgcatag | ttcccgcagt | gtgcggcccc | 360 |
| tggagtccac | caaagtgaag | acctttgtct | cccagataat | tgacactctg | gacattgggg | 420 |
| cggcagatac | acgggtggca | gtggtgaact | atgctagcac | cgtgaagatt | gatttccawc | 480 |
| tccagaccca | ctcagataaa | cagtccctga | aacaggctgt | ggctcggatc | acaccctgt | 540 |
| ctacaggcac | catgtccggc | ctggctatcc | agacagcaat | ggatgargcc | ttcacgggtg | 600 |
| aggcaggagc | tcggggggccc | acttycaaca | tccctaagg | ggccatcctc | gtgacagatg | 660 |
| ggaggcccca | ggaccaggtg | aatgargtg | cggctcgggc | ccgggcatct | ggtattgaac | 720 |
| tctacgccgt | gggcgtggac | csggcaraca | tggagtccct | tcaagatgaa | tggccagcga | 780 |
| agcccttaga | cgagcacgtt | ttctatgtgg | agacctacgg | ggyattgag | aaaccttctt | 840 |
| ytagattcca | ggaaaccctt | ttgcgtcttt | ggaacc | | | 876 |

<210> 810

<211> 1586

<212> DNA

<213> Homo sapiens

<400> 810

| | | | | | | |
|-------------|-------------|-------------|------------|------------|-------------|------|
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| tttctcctaa | gagctataag | ctttcaagcg | gaaaaataaa | atacatatac | taaatatgta | 120 |
| agtgaagaaa | agttaagctt | aaactttaaa | atggcgacat | tggtttgtgt | gttaactttt | 180 |
| tagatcaata | tttataagta | tataattttc | ttgattgaat | cctaaagtga | aacagttaaag | 240 |
| ataatgtagg | attttttacc | aaaacttgg | aagaagtatt | aacacttaat | tcaaaactaa | 300 |
| agtctttagt | tatgtgtttc | ttacaatatt | tcattgtagt | ttcacttgat | cttgatatgt | 360 |
| gttataatcc | cctgatcaca | gcttcagtga | tattccagca | aaaagtgagc | aaaaarcaa | 420 |
| gcattaaaga | aacagttcta | aattatattt | acctcaatta | tatgaacttt | tttatgtgta | 480 |
| aatacttgta | taatttacac | tctcaataat | aaaactgggt | tatactataa | atactatcaa | 540 |
| gagaaaaatag | ataaaaaagt | cccatgttaa | gaatgggtat | cttactaata | taaacattta | 600 |
| aaaattaaat | ggctcaattg | gtaaataaag | agataccaaa | cttttcatte | tattccccat | 660 |
| gaatcatttc | acagtcatag | cttagagaca | ctaaagtttg | ctcttaagga | tgtgaacgtt | 720 |
| tatgtcctac | tgattctcta | gaagatcctc | atactactta | tccagtaata | ttaaagcatt | 780 |
| tgcaatggca | aattattagc | aggaacattg | aagtatgcaa | aaatattaaa | tagaccaagc | 840 |
| tctccgtata | tccaggtgaa | aaatctgagt | aattcaacga | tgtatttgtc | catacgcatc | 900 |
| tgcttgcaac | ttgccccaaa | tatcatcgag | tttggcattc | agtctctgca | gatatgagct | 960 |
| ggccctctcc | tggaggcca | gggtggcttc | acaccacaaa | gcattctctg | tagagacgag | 1020 |
| tcttcgtgct | tcttcaatgg | ctgcgcacgt | cctccggtct | tcggctcagg | tgtagccggg | 1080 |
| gaaacaatcg | cagygatagg | ccgcggggcc | gtcgtccaca | cacagggtgt | ggcagccgtg | 1140 |
| cgagccmncac | gcacactcgc | tgcgaaactga | acacgttttg | ttgtcagcat | tcagagtrka | 1200 |
| assctcgtag | matwmacagt | gatgggaccc | atctctgtca | tttacacaaa | tgtgctggca | 1260 |
| gmcatgtgta | ccaaaggcac | attggtcttg | agccgaacaa | gtcttctctg | cttggttcag | 1320 |
| ggtgtaacct | tcgtagcact | cacagtggta | agagccagtt | ctgtcgttca | cacagatgtg | 1380 |
| ttcacaaccg | tgagtgttca | gagcacactt | atcgatagct | gaacacgtct | tctgatcggc | 1440 |
| gttcaaggag | tagccttggc | tgcaactcaca | gtggtgcttg | ccttccccat | cactgacacm | 1500 |
| cacgtgctgg | caccgggtgtg | tgccaarccac | acacgggwcc | agagcgcaaa | aggtttctctg | 1560 |
| gaatctagag | gagagtttgg | caattt | | | | 1586 |

<210> 811

<211> 1011

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2)..(2)

<223> n equals a,t,g, or c

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<400> 811
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aaaaaatgca ttttaataaa aacaaatcta tactgaagtc attttccttt gtgagaggaa    180
atatgaatga aatacattca tacttaaaaa cagagtattt tactgccaaa actttaaaata    240
tctcaagagc ataccacatt ttaaacacat tatggatcat tagctatttc aatattcctg    300
ggagtgggtg gcaattagcc tgtctatggc ttaggatctg tttccatgct tgcttcctga    360
gcttcttcta cctctgagag tttttcatca ttttccaatg tttgctgaag ttcatggatg    420
gtactaagaa gaacatgaaa ctgtttccgt ctcaattcca gcttatcttc aacactttct    480
ttaatgtgtg aaagatgctc taattctttt ccagagcctc tagtttcctt taatgtctca    540
tgcctgtctg gatgggtgctg aatcactttt gccaaagcat catattcttg gcgatttttt    600
cgtattcggt ttgcttgaag aatttgcttt ttgcactcag caattttttc atgtgtctca    660
gctatgctac attctatttc ctgtgaaatt ttttcataat tttccatttc tctgagattc    720
atatcatata ctagtaaagt tttgcccatt gaaaattcac attgagacag cgtgctcagc    780
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ctcttcaacta gcagattaat tctccgatca tctccagcac catctccatc aatgaggaga    900
cgcttccgta taattcgctg tcagtcacgg ctcccattgg gtgcgcggcg gcggcggcgg    960
gcaagctgag gcggcggttg gcggcgggcg cggaggtcaa actcccacaa t          1011

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<210> 812

<211> 427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (230)..(230)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (290)..(290)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (338)..(338)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (381)..(381)

<223> n equals a,t,g, or c

<400> 812

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gctcgctgcg ccgcccgcg cgctcgctcg aatcccgtg cacaagttca cctctgtgct    180
cgggaccatg tcggagttgg ggggccccgt ggaggatctg atcgccagan gccccatttc    240
aaaatacgcc caggggggtg ccagtgtggc ggggggtccc gttccggagn tgctcaagga    300
aactacatgg aacgcgcaaa tactacgggg aaaattcngg catccgggaa cgccccccg    360
caaattgctt ccacccgtcc ntccttttga aaaacggggt tccttcccaa ccttggtggg    420
ttcccccc                                427

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<210> 813

<211> 1500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (8)..(9)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (417)..(417)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1431)..(1432)
 <223> n equals a,t,g, or c

<400> 813
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 ccccaacccg gcaccagcaa atgccctcct agatgggggtc aagccccagg aggaccccaa 180
 aggcacacaa aggtctgcctt ttgtccctga gtcccgaccc ttccaagccc ttcctgcttg 240
 tccttggggc tcggcggggtc ccttccacga tggggccacac gggaagacag gccagcagtg 300
 ccccgctctg gacccagac cagacccag gaggagaagc ccagagaaca gcctggcctg 360
 ggggtggggc tcagtccaga agtcctgcct gggcagccag gccccgaag cacgggntgg 420
 gggggggggg gggaactacc tgggcccggg gaggggggtcc cgctgcaag acgatgggcg 480
 gccgagccag gctggggctt ccagtcagt gacgtggctc cagactcggg gtcagcctag 540
 tgggtgctgc cccgcacccc gccctctact agacagacag acacaccaag gccggggaaa 600
 ccacagaaca aaacggcagc ccgacagccc ggccgctgca gagctgggct ttgagtgtga 660
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 caccggttcc tgggtcccgt cgaacacggt gtagtagcgg ccgatgaaga cgtccccag 840
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 ggacttccc ccttgcgaca ccttgagcgt gtagtcctct gacgacagct ttaggggtt 960
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 gggggccacg atgagcgagg tgcccgtgtc cagcatggcc tcgcagcccc ccttgacag 1140
 ggtcaggctg ctgcccacgt ccacctgttc catgtggacc tgccagtacg ccttgcggt 1200
 cacgttgagg taggacagg gacccttgta gtacttgag tctgtgccgc ccagcatgag 1260
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 ggggtaggcc atgcccagga tgccgtcgaa cttggccgcg atgaaggtag nccccggctg 1440
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<210> 814
 <211> 1234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1058)..(1058)
 <223> n equals a,t,g, or c

<400> 814
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 aactgcggcg tcattccggc tataagcgca cggcctcggc gaccctctcc gaccggccg 120
 ccggcccat gcagccctcc agccttctgc cgtcgcctct gctgcacccg gctgcacccg 180
 cctccgcgct gtcaggatc ccgctgcaca agttcacgtc catccgcccg accatgtcgg 240
 aggttggggg ctctgtggag gacctgattg ccaaaggccc cgtctcaaag tactcccagg 300
 cgggtgccagc cgtgaccgag gggccattc ccgaggtgct caagaactac atggacgccc 360
 agtactacgg ggagattggc atcgggacgc ccccccagtg cttcacagtc gtcttcgaca 420
 cgggctcctc caacctgtgg gtccctcca tccactgcaa actgctggac atcgcttgc 480
 ggatccacca caagtacaac agcgacaagt ccagcaccta cgtgaagaat ggtacctcgt 540
 ttgacatcca ctatggctcg ggcagcctct ccgggtacct gagccaggac actgtgtcgg 600

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| tgccctgcc | gtcagcgctg | tcagcctctg | ccctgggagg | tgtcaaagt | gagaggcagg | 660 |
| tctttgggga | ggccaccaag | cagccaggca | tcaccttcat | cgcagccaag | ttcgatggca | 720 |
| tcttgggcat | ggcctacccc | cgcctctccg | tcaacaacgt | gctgcccgtc | ttcgacaacc | 780 |
| tgatgcagca | gaagctgggtg | gaccagaaca | tcttctcctt | ctacctgagc | agggaccag | 840 |
| atgcgcagcc | tggggggtgag | ctgatgctgg | gtggcacaga | ctccaagtat | tacaagggtt | 900 |
| ctctgtccta | cctgaatgtc | acccgcaagg | cctactggca | ggtccacctg | gaccagggtg | 960 |
| aggtggccag | cgggctgacc | ctgtgcaagg | agggctgtga | ggccattgtg | gacacaggca | 1020 |
| cttccctcat | ggtgggccc | gtggatgagg | tgccgcanct | gcagaaggcc | atcgggggcc | 1080 |
| tgccgctgat | tcaggggcag | tacatgatcc | cctgtgagaa | ggtgtccacc | ctgcccgcga | 1140 |
| tcacactgaa | gctgggaggc | aaaggctaca | agctgtcccc | agaggactac | acgctcaagg | 1200 |
| tgctgcaggc | cgggaagacc | ytctgcctga | gcgg | | | 1234 |

<210> 815

<211> 3095

<212> DNA

<213> Homo sapiens

<400> 815

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| ccacgcgtcc | gtccttccgc | agagaacgtg | gccagaagt | ttgtattagg | aagcaagtaa | 60 |
| gaaagaaaag | gaaaaaaaaa | agaaatcttg | catttgacac | atgaaaaagt | aactaaaagc | 120 |
| ttgcacggag | atatattaag | cccttgact | aaaaatgctg | gtactgttta | aattcctccc | 180 |
| gttgacttca | agtgggcgct | ttttatccgt | aacattgtat | caccgggtgc | accaccagac | 240 |
| gtttttcgca | ggagcgaagt | cattctctcc | ggcgtctaca | cttaacttgt | atatttgttc | 300 |
| tagccaattt | cagtcacttc | agaaacttta | ctgtggcgta | attccagtto | ttaggtacgc | 360 |
| gagcatagag | tgaaaaata | gctgtgattg | ttcttatgta | aaaatcaaag | ctccaatgga | 420 |
| agttaatgaa | tacctttgta | ataatggaat | ctatttggcc | tttatttctt | aattcttctg | 480 |
| tttaaaactgc | tgctattaaa | aacacaccca | tgttattagg | tttacggaag | ttgagctgtc | 540 |
| gttcaagtgc | ttggcgctccg | gaaagggtgc | cgtgccatgg | gcttgtgacc | cggctcctgga | 600 |
| tacaccagaa | acatcacctt | cttgccacct | aaaagagaat | cgcactcaca | aacgctgtca | 660 |
| caaccgtctt | tatgacatca | atctcccttg | ttccggttct | ctttttacaa | aaaagaattt | 720 |
| acttcattaa | acaatttccg | tctctagttt | aaacagaagg | tggaaaaaaa | tagaccccg | 780 |
| tctagactca | ttttctccag | tccacattgg | aattgggttta | agaatatcct | cttccaaaca | 840 |
| aaacaagacg | atttgtactt | tgtgtctaag | atgtctaaga | tgaaacgttt | aaaactctga | 900 |
| ttaccacaat | tttggtttt | ttgttaaaat | caaattgtatt | ttcaaactta | ctgtgttaca | 960 |
| atattatagt | taaaaagtac | agggagagca | gaagccctga | tctaagaggt | gagtcattgt | 1020 |
| cctcatgttg | ctgctaactt | gaattgcaga | agagaaaatc | tcagtgcctt | ctgcctggct | 1080 |
| ttttgatgga | gtttgcttaa | cacccttcat | ctttctgttt | ctctccatgt | aactaaatga | 1140 |
| cgttttaaaa | attcagtgct | gaggtgtctg | ggtagcacag | cgggtgagcc | tccgattttt | 1200 |
| ggtttcaact | caggtcacga | tctcagggtc | atgggatcga | gccccacaac | aggctccacg | 1260 |
| ctcagccggg | agtgtgctta | agtttctcgc | tctgcccttg | cccttcccct | tcccctgctg | 1320 |
| cgtgcaccta | tgactctct | ctctcaata | aacaaataaa | tctttaaaaa | tataataata | 1380 |
| aaacacagtg | cataccataa | aacattaagt | aatatgcgtt | agggagcat | ttgagatcat | 1440 |
| gcatagctta | tatatttcaa | aaaggatttg | ttcacatcag | tacaatagat | agatataaaa | 1500 |
| gaagcaattc | ttggagcgtc | tggttaaaga | aggtagtgtc | cgggtcagc | aggctttccc | 1560 |
| gtcaagccac | tgatctccac | cgggtctctc | cgtgttcctc | ttcaataact | gagtgagtc | 1620 |
| tatgagcaga | tgctgccttc | tgccacataa | agtatcctta | acttttactt | tgctttgagt | 1680 |
| ttaaaccagc | attgaaatgt | aaatcacgtc | ttcctcatgc | atgaaattgt | gaggggaagtc | 1740 |
| agagaggttc | tctaagagtt | tatttagcaa | tgaggaaaca | ggacaaagag | gaggtagtcc | 1800 |
| catagtgggg | aggggtgggag | gcgggggtctg | ccgggcagca | ctgggtccag | cgtctccctt | 1860 |
| tccctagctt | tctcccaatt | ttcttttagga | aaaatgatgt | catagtgaga | tttccataaa | 1920 |
| cagaatgttt | ctaaggttca | ctgtatggac | ccagacccca | gacgggtgtc | ttataagcga | 1980 |
| acttagaacg | gatgctggga | actaagtact | tgagtgttga | cttgctcacc | tgctgtggac | 2040 |
| agagggacaa | gccagcaagc | ccccatgaag | tgacgggcag | ccccacctgg | gccctggaga | 2100 |
| gaccgacgca | ccctctcagc | tggggtgcag | agaaaggatt | ggtttggggg | atagcagtgg | 2160 |
| actgtcagaa | gaacttacgg | gatectattg | taatgtaagc | tatgaatcag | gcttgctgtc | 2220 |
| ctgggactga | ggttgtaacc | cgtgaacgac | gcaccaaacac | aggcagctga | tgctgttgct | 2280 |
| ttggcttcca | atttgctaatt | ataaaaatct | agacttgttt | catgaaaaca | ggacatttaa | 2340 |
| acattctcatg | aataattctc | aaaaatattt | ggggaaacct | atgtacacat | ttctgttgga | 2400 |
| ctgacaccta | gaaatcaaat | tgttgtagaca | gaggtgtgac | ctatgttcag | cttcagtaaa | 2460 |
| tactgccgga | gagatctctg | aatgataaac | agttaacgga | aaatcgacac | aaaccaggct | 2520 |
| ggttgaggca | acaaccatt | gggctagttt | ctgggtggcct | gctgaaccac | gcagccaaca | 2580 |

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ctgggcttca gactgcacgg gactctcttt gtccacctgt cctgtgcctg gccccacacc 2640
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<210> 816

<211> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (388)..(388)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (414)..(414)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (458)..(458)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (501)..(501)

<223> n equals a,t,g, or c

<400> 816

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tcgaccacg cgtccggcac gktcgccagg caccgctgac cgaggcctgc tgggattcca 60
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gggagaaatgg acgggttctg ggagaccaga tgggtctcaga cactgagctc caggaaatgt 180
ccaccgaggg gagtaagtac attaatcggg aaattaaaaa tgctctcaag ggggtgaagc 240
agataaagac actaatagaa caaacaaacg aggagcgcaa atccctgctc accaacttgg 300
aagaagccaa gaagaagaaa gaggatgccc tgaatgacac caaggattca gaaatgaagc 360
tgaaggcgct cccaggggtt ttcaatgnca cccttgatgg ccctctggga ggantttaag 420
cccttccttg aaaacagacc tgtattgaag ttctaagncc cgagtcttcc agaagccagc 480
cacaaggctt ggtttgcca nccaggtttg aaggagtt 518

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<210> 817

<211> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (388)..(388)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (414)..(414)

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<220>
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<400> 817
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 gggagaatgg acgggttctg ggagaccaga tgggtctcaga cactgagctc caggaaatgt 180
 ccaccgaggg gagtaagtac attaatcggg aaattaaaaa tgctctcaag ggggtgaagc 240
 agataaagac actaatagaa caaacaacac aggagcgcaa atccctgctc ascaacytgg 300
 aagaagccaa gaagaagaaa gaggatgccc tgaatgacac caaggattca gaaatgaagc 360
 tgaaggcgtc cccaggggtt ttcaatgnca cccttgatgg ccctctggga ggantttaag 420
 cccttccttg aaaacagacc tgtattgaag ttctaagncc cgagtcttcc agaagccagc 480
 cacaaggctt ggtttggcca nccaggtttg aaggagtt 518

<210> 818
 <211> 1670
 <212> DNA
 <213> Homo sapiens

<400> 818
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 aatggacggg ttctgggaga ccagatgggtc tcagacactg agctccagga aatgtccacc 180
 gaggggagta agtacattaa tcgggaaatt aaaaatgctc tcaagggggt gaagcagata 240
 aagacactaa tagaacaac aaacgaggag cgcaaatccc tgctcaccaa cttggaagaa 300
 gccaaagaaga gaaaagagga tgccctgaat gacaccaagg attcagaaat gaagctgaag 360
 gcgtcgagg ggggtgtgcaa tgacaccatg atggccctct gggaggagtg taagccctgc 420
 ctgaaacaga cctgggggaa ggggtctacg ccgagtctgc agaagcagca cagggtggt 480
 tggccaccag gttgaggagt tcctgaacca gagttctccc ttctacttct ggattaatgg 540
 cgaccgcac gactccctgc tggagaacga ccggcagcag acccacgccc tggatgtcat 600
 gcaggacagt ttcgaccggg catccagcat catggatgag ctgttccagg acagattctt 660
 caccctgtgag gccagggacc ctttccactt ctcacccttc agctcattcc agcggaggcc 720
 ttttttcttc aatatcaagc accgctttgc ccggaacata atgcctttcc ctggctacca 780
 gcccttgaat ttccacgaca gtgttcagcc cttcttcgac atgatacacc aggtcagca 840
 ggccatggat gttaacctgc acagactccc ccactttcca atggaattca cagaagaaga 900
 caaccaggac ggcgccgtgt gcaaggagat ccgtcacac tccacagggt gcctgaagat 960
 gaaggaccag tgtgaaaagt gccgggagat cttgtctgtg gactgttcgt ccaacaaccc 1020
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 ctccctctgg cgctactaag gtggttgatga agctcttga ttccgacccc atcaccgtga 1320
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 cccttcagga ataccgccag aagagccggg aggagtgaga tgggaacact gcctctccac 1440
 atggcaggtg tctgagttct gtcgcccccg cgatgagcga tagggcccta gagagagctc 1500
 tgcattgtcac cgagtgaccg ggccttcctt gaggcctcc tgctccctca ccccgctgt 1560
 cctccctctg gactctgcat tgtaacaccg tgttactga tcatgggaag aactcctgtg 1620
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<210> 819
 <211> 606
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (591)..(591)
 <223> n equals a,t,g, ,or c

<220>
 <221> misc_feature
 <222> (593)..(593)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (600)..(601)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (605)..(605)
 <223> n equals a,t,g, or c

<400> 819
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 tcttcccatg atcagtgaac acggtgttac aatgcagagt ccagagggag gacagggcggg 120
 gtgaggggac aggagggcct caaggaaggc ccggtcactc ggtgacatgc agagctctct 180
 cttaggggcct atcgctcatc gcgggggcga cagaactcag acacctgcca tgtggagagg 240
 cagtgttccc atctcactcc tcccggctct tctggcggtta ttcctgaagg gctttctctg 300
 ccacgggtctc cataaattta ggattgttcc tggagagggtc ttctgggagg atcacgggtga 360
 tgggggtcggg atcaaagagc ttcacaacca ccttagtgac gccagagggg gcaactggagt 420
 cagaagtctg ggaactcacc gtcgtgacct ggagatagaa cgggtcctca gtctgagtga 480
 gattcgccag ctgggacacc cagctaaact gctcgtccag ctgcttcac aggragracg 540
 wgttgaacat cttctcctgg taggactgca gcagctcgks gtgggtgcct nanacaacan 600
 nctana 606

<210> 820
 <211> 841
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (20)..(20)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (101)..(101)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (703)..(703)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (779)..(779)

<223> n equals a,t,g, or c

<400> 820

| | | | | | | |
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| cttagtacgc | caaaggaacn | ctgaatcana | agcntggacc | tcaccgtcgt | gacctgnaga | 60 |
| tagaccgggt | cctcagtctg | agtgagattc | gccagctggg | nccacccagc | taaactgctt | 120 |
| cgtccagctt | gcttcagcag | gaagacgtgt | tgaacatctt | ctcctggtag | gactgcagca | 180 |
| gctcgtcgta | caagcttggg | gaacttctct | gcaatctgga | gggaattatt | aagttcctgt | 240 |
| cgagctgga | cctgagcggg | gttgttggac | gaacagtcca | cagacaagat | ctcccgccac | 300 |
| ttttcacact | ggtccttcat | cttcaggcac | cctgtggagt | tgtgacggat | ctccttgac | 360 |
| acggcgccgt | cctggttgtc | ttcttctgtg | aattccattg | gaaagtgggg | gagtctgtgc | 420 |
| agggttaacat | ccatggcctg | ctgagcctgg | tgtatcatgt | cgaagaagg | ctgaaacatg | 480 |
| tcgtggaaat | tcaagggctg | gtagccagg | aaaggcatta | tgttccgggc | aaagcgggtgc | 540 |
| ttgatattga | agaaaaaagg | cctccgctgg | aatgagctga | agggtgagaa | gtgsaaagg | 600 |
| tcctgggcct | cacgggtgaa | gaatctgtcc | tggaacagct | catccatgat | gctggatgcc | 660 |
| cggtcgaaac | tgtcctgcat | gacatccagg | gcgtgggtct | gcnaccggtc | gttctccagc | 720 |
| agggagtcga | tgcggtcgcc | attaatccag | aagtagaagg | gagaactctg | gttcagganc | 780 |
| tcctcaacct | ggtggccaac | cagccctgtg | ctgcttctgc | agactcgggc | gtagaccctt | 840 |
| c | | | | | | 841 |

<210> 821

<211> 868

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (23)..(23)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (31)..(31)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (45)..(45)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (829)..(829)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (860)..(860)

<223> n equals a,t,g, or c

<400> 821

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|-----|
| ntttcagcag | ttccgcatgc | ccntccgtgg | naagcctgtt | cgtgntattg | ggcaagaacc | 60 |
| cccatgatgc | ccaaggccat | ccaaggccat | ctgaagacca | acccagctct | ggaaaacctg | 120 |
| ttacttcata | tccgggggaa | tgtggctttg | tgttcaccaa | ggaggcctca | cttgagatca | 180 |
| gggacatgct | gctggccaat | aagggtgccag | ctgccgccc | tgctggtgcc | atagcccat | 240 |
| gtgagggtcac | tgtgccagcc | cagaacactg | gtctggggcc | cgagaagacc | tccttcttcc | 300 |
| aggcttttagg | catcaccact | aaaatctcca | gaggaacccat | tgaaatcctg | agtgatgtgc | 360 |
| agctgattaa | gaccggagac | aaagtgggag | ccagtgaagc | cacactgctg | aacatgctga | 420 |
| acatctcccc | cttctccttt | gggctgatca | tccagcaggt | gtttgacaat | ggcagcatct | 480 |
| acaaccctga | agtgtttgac | atcacagagg | aaactctgca | ttctcgcttc | ctggagggtg | 540 |
| tccgcaatgt | tgccagcgta | tgtctgcaga | taggttaccc | aactgtggca | tcagtgcctc | 600 |
| attctatcat | caatggatac | aagcgggtcc | tggctttgtc | tgtggagact | gattacacct | 660 |
| ttccacttgc | tgaaaaggtc | aaggccttct | tggctgatcc | atctgcattt | gtggctgctg | 720 |
| ccctgtggc | cgctgccacc | actgtgcac | ctgtgtgtgc | tgacagccca | gccaaagttg | 780 |
| aagcaaagga | agagtcggag | gaawcggatg | agagkattkt | camttcgana | atcagcaaaa | 840 |
| gcaacaattc | cagccagttt | attgtgaa | | | | 868 |

<210> 822

<211> 1395

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1338)..(1338)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1382)..(1384)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1390)..(1390)

<223> n equals a,t,g, or c

<400> 822

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
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| gccgctggcc | gccgcgcggc | cgggccctac | ttccgtcccg | gccggggctg | ccgcctgccc | 120 |
| ctgcgggggg | accagctgtc | ggggctgggg | cgcaggacct | acccccggcc | gcacgagtac | 180 |
| ctgtcccat | ctgacctgcc | caagagctgg | gactggcgca | acgtgaacgg | ggtaactat | 240 |
| gccagtgcc | ccaggaacca | gcataatccc | cagtactgtg | gctcctgctg | ggccccacggc | 300 |
| agcaccagt | ccatggcgga | ccggatcaac | atcaagagaa | agggggcgctg | gccctccamc | 360 |
| ctgctgtccg | tgcaacamkt | cytcgaytgg | cgccaacgcg | ggytctgtga | gggggcaack | 420 |
| acctgccggt | gtsgacgtac | gcccatgagc | amggcatccc | ggacgagacc | tgcaacaact | 480 |
| accaggctaa | ggaccaggaa | tgcaacaagt | tcaaccagt | tggaacatgc | acggaattca | 540 |
| aggagtgcc | ctacatccag | aactacacgc | tctggaaagt | gggtgactac | ggctccctct | 600 |
| ccggcaggga | gaagatgatg | gcggaaatct | atgccaacgg | ccccatcagc | tgcggtatca | 660 |
| tggccacggg | gaagatgggt | aactacacgg | gaggcatcta | cgcggagtac | caggatcagg | 720 |
| cctacataaa | ccacgtcatt | tctgtggtcg | gctggggcgt | cagcgacggc | acggagtact | 780 |
| gggtgtgtccg | gaattcgtgg | ggggaaccgt | ggggggagca | cggctggatg | aggattgtga | 840 |
| ccagcaccta | taaagacggg | cagggcgcca | gttacaacct | cgctgtcgag | gacacctgta | 900 |
| cgtttgggga | ccccatcggt | taaggagacag | gtctccccag | aagagcagtg | ttatcgtgaa | 960 |
| ccataatcag | ggggctctat | cgctctgggc | actgggttgg | ttccaccatg | gtctgaaggg | 1020 |
| actggggagc | ggcatcaaac | gtgtctgatg | gtgctcgcg | gccccgtgcy | cccagaaggg | 1080 |
| agaagggggc | cctgtcagca | cacagcctgc | cgcggcgcgc | gccgggagcg | cgctcctggg | 1140 |
| gaagagtctg | caatgggacg | gctgagagcc | ccgggcccgc | cactgccctg | cccagtgtct | 1200 |

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gcctggccac cgtgtgatcc gcaaggccca aacgatgtga ctgcaagctt ctctgtccct 1260
gatttggtgt ttcctgtctg gcagctgtgg tccatgatgt ggtgcggaag cccaagcttc 1320
tcaaagctct tacgttgctt gggattcggt gggggggagt cgggggggtg aaggagaaag 1380
cnnnccttgn aagat 1395

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<210> 823

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (260)..(260)

<223> n equals a,t,g, or c

<400> 823

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tgggacggct gagagcctcg ggccggccac tgcctgccc cagtgtctgc ctggccaccg 120
tgtgatccgc aaggcccaaa cgatgtgact gccaaagctcc tctgtccctg atttggtgtt 180
tcctgtctgc agctgtggtc catgatgtgg tgcggaagcc caggcttctc aaagctctta 240
cgttgctggg attcggtggn ggggartcgg 270

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<210> 824

<211> 2324

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (15)..(15)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (23)..(23)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (92)..(92)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (95)..(95)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (107)..(107)

<223> n equals a,t,g, or c

<400> 824

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cgccaaaccc gcctnttccc cgngcgtttg ccgtcnttta aatgccagga tcgatccagc 60
catgataaga tccattgatg agtttgGCCA anccncaact tagaatncag tgaaaaaaat 120
gctttatttg tgaaatttgt gatgctattg ctttatttgt aaccmttata agctgcaata 180

```


| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|------|
| accaagttac | camcamcaat | tgcattcatt | ttatgtttca | ggttcagggg | raggtgtggr | 240 |
| agggttttta | aagcaagtaa | amcctctaca | aatgtgggtat | gsctgattat | gatcatgamc | 300 |
| agactgtgag | gactgagggg | cctgaaatga | gccttggggac | tgtgaatcta | aaatacacaa | 360 |
| mcaattagaa | tcactagctc | ctgtgtataa | tattttcata | aatcatactc | agtaagcaaa | 420 |
| actctcaagc | agcaagcata | tgcagytagt | ttaacmcatt | atacacttaa | aaattttata | 480 |
| tttaccttag | agctttaaat | ctctgtaggt | agtttggtcca | attatgtcac | accacagaag | 540 |
| taagggttct | tcacaaagat | cccaagctag | cttataatac | gactcactat | agggagagag | 600 |
| ctatgacgtc | gcatgcacgc | gtaagcttgg | gccccctcag | ggatcctcta | gagcggccgc | 660 |
| cctttttttt | tttttttcat | cttttattta | tttattattt | ttttttacta | aggcacatga | 720 |
| cgtagaaata | ttgagggtaca | aaatgcaaat | tcttgcataa | gatttttaag | atattcattt | 780 |
| tggaaaatga | agggtgaacat | catctcccag | aatattcagc | ttttagcttg | ttttttcttt | 840 |
| tggaccagtt | caaccagcaa | cttgtaaccta | gcgatacagt | cttccttgct | cttggacggg | 900 |
| acacatctgg | ctattttgtc | ccagcgggtca | gaggatcccc | ttgggtactg | ctgcaacgcc | 960 |
| agtccagaa | gtttctgttg | attttgagtc | cacggctcct | ctgcagaccg | agctctctct | 1020 |
| tttctcaggc | tctcctcgtc | gctggactcg | ttttgttctg | ctatgtcaaa | gtccttctgc | 1080 |
| cgcttggttc | tggacttctc | ctctggctcc | ggcttcgctg | tagcctccag | cagcctggct | 1140 |
| ggcttccgcc | tccgagcccg | ggcatcagtg | gccccgggtc | cctgtccacc | ggagtctccc | 1200 |
| tctgtctcct | cctccgctgc | cacccccctc | gcgtcctctc | gctgggtgat | catgtcatcg | 1260 |
| ggcaaggtgg | tggccgtttt | gatgggcctg | gaattctgaa | ctgtcgattt | gagttcggag | 1320 |
| agtctaacca | ttcctgggga | gcaggtcact | gaatccttca | gttgcttggc | tttggttgtc | 1380 |
| acatctgtca | cagatcgacc | caattcgtgg | gcaatctttt | cccatcgacc | tggagtcctt | 1440 |
| cctgggaact | taaccatact | tcttgtcagt | tggctgaggt | cctcttctgt | ccattcaggt | 1500 |
| gcctgttttt | tctgtgttcg | gttccgtgtt | tccaaccaat | catccatttg | ttcctcaatt | 1560 |
| tcttctatgg | aagttccatg | atcataagac | tgaatatatg | tagtttctaa | aggtgtgtat | 1620 |
| acaggaaatt | caggttttgg | ttttttaact | ttcttctgtt | tttgaagtgt | ttcaagttca | 1680 |
| gttctagtc | gtgcatcttc | cttttccttc | aatcttgttt | ctttatattt | agcataaaa | 1740 |
| tgccagcat | cctggatgag | gtgaggtaat | gcttttagtg | taaggcaaaa | ccaaatcccc | 1800 |
| agtttgcatt | gaagcaaatc | atgccactgt | ggtttcatca | gcaatctttc | atttttttct | 1860 |
| gaagcaccga | gttttgatac | atccacactc | ttgctgccag | tctttttttt | cttttctctc | 1920 |
| ttttttctac | ttagtagttc | atccagttgt | ttttccaggt | agattgacca | aaccacagca | 1980 |
| taatgaccca | ctgtgagaat | aatgaacaag | agtaatgcc | gctcagcatt | gtcatttttt | 2040 |
| ctcaccgcc | tgtagtagaa | tacaggctgt | cgccaatctg | gaagtccatt | gatcagaata | 2100 |
| tcatacatcc | tctgccttcg | ttcatcatcc | tttaaaactt | cataaatggc | caccaattgt | 2160 |
| ctaaactgag | tttctgcatt | ttcatcttta | ttcttgtctg | gatgtaaagt | tagtgaaagc | 2220 |
| ttacgatatg | cttttctgat | gtctgcagat | gatgcacct | gctgcacccc | gaggaactgg | 2280 |
| tagaagttga | gcggacgcgt | gggtcgaccc | gggaattccg | gacc | | 2324 |

<210> 825

<211> 2075

<212> DNA

<213> Homo sapiens

<400> 825

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
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| ctatgccctt | gctctgctcg | tctgtttgct | cctggggccc | ggcggctggt | gccttgcaga | 120 |
| acccccacgc | gacagcctgc | gggaggaact | tgtcatcacc | ccgctgcctt | ccggggacgt | 180 |
| agccgccaca | ttccagttcc | gcacgcgctg | ggattcggag | cttcagcggg | aaggagtgtc | 240 |
| ccattacagg | ctctttccca | aagccctggg | gcagctgac | tccaagtatt | ctctacggga | 300 |
| gctgcacctg | tcattcacac | aaggcttttg | gaggacccga | tactgggggc | cacccttctt | 360 |
| gcaggcccca | tcagacactg | accactactt | tctgcgctat | gctgtgctgc | cgcgggaggt | 420 |
| ggctctgacc | gaaaacctca | ccccctggaa | gaagctcttg | ccctgtagtt | ccaaggcagg | 480 |
| cctctctgtg | ctgctgaagg | cagatcgctt | gttccacacc | agctaccact | cccaggcagt | 540 |
| gcatatccgc | cctgttttga | gaaatgcacg | ctgtactagc | atctcctggg | agctgaggca | 600 |
| gaccctgtca | gttgtatttg | atgccttcac | cacggggcag | ggaaagaaa | actggtccct | 660 |
| cttccggatg | ttctcccgaa | ccctcacgga | gccctgcccc | ctggcttcag | agagccgagt | 720 |
| ctatgtggac | atcaccacct | acaaccagga | caacgagaca | ttagaggtgc | acccaccccc | 780 |
| gaccactaca | tatcaggacg | tcatactagg | cactcggaag | acctatgcc | tctatgactt | 840 |
| gcttgacacc | gccatgatca | acaactctcg | aaacctcaac | atccagctca | agtggaaag | 900 |
| acccccagag | aatgaggccc | ccccagtgcc | cttctgcac | gcccagcgg | acgtgagtgg | 960 |
| ctatgggctg | cagaaggggg | agctgagcac | actgctgtac | aacacccacc | cataccgggc | 1020 |
| cttcccggtg | ctgctgctgg | acaccgtacc | ctggatctg | cggctgtatg | tgcacaccct | 1080 |

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caccatcacc tccaagggca aggagaacaa accaagttac atccactacc agcctgcca 1140
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caaggtttcc atccagtttg agcgggctgt gctgaagtgg accgagtaca caccagatcc 1260
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<210> 826

<211> 1697

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1627)..(1627)

<223> n equals a,t,g, or c

<400> 826

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gaggttttct ataaactgta tcattttctg ctgaggggtg agtgtcccat ctttttaac 1560
aaggtgattg tgattttgac taataaaaaa gaatttgtaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaa ggcgcgcgct ctgagagatc cctcgagggg cccaagctta cgcgtgcatg 1680
cgacgtcata gctctac 1697

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<210> 827

<211> 2645

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1324)..(1324)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2645)..(2645)

<223> n equals a,t,g, or c

<400> 827

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| tgatcatcat | gggtattctg | gtgctgggct | acggaatatt | tcactgctac | atggagtact | 120 |
| cccgaactcg | tggtgagggc | ggctctgatg | tctctttggt | ggacctcggc | tttcagacgg | 180 |
| atttccgggt | gtacctgcac | ttacggcaga | cctggttggc | ctttatgac | attctgagta | 240 |
| tccttgaagt | cattatcatc | ttgctgctca | tctttctccg | gaagagaatt | ctcatcgcga | 300 |
| ttgcactcat | caaagaagcc | agcagggctg | tgggatacgt | catgtgctcc | ttgctctacc | 360 |
| cactgggtcac | cttcttcttg | ctgtgcctct | gcacgccta | ctgggccagc | actgctgtct | 420 |
| tcctgtccac | ttccaacgaa | gcggtctata | agatctttga | tgacagcccc | tgccatttta | 480 |
| ctgcgaaaac | ctgcaacca | gagaccttcc | cctcctccaa | tgagtcccg | caatgcccc | 540 |
| atgcccggtg | ccagttcgcc | ttctacggtg | gtgagtcggg | ctaccaccgg | gccctgctgg | 600 |
| gcctgcagat | cttcaatgcc | ttcatgttct | tctggttggc | caacttcgtg | ctggcgctgg | 660 |
| gccaggtcac | gctggccggg | gcctttgcct | cctactactg | ggcctgcgc | aagccggacg | 720 |
| acctgccggc | cttcccgtct | ttctctgcct | ttggccgggc | gctcaggtac | cacacaggct | 780 |
| ccctggcctt | tggcgcgctc | atcctggcca | ttgtgcagat | catccgtgtg | atactcgagt | 840 |
| acctggatca | gcggctgaaa | gctgcagaga | acaagtttgc | caagtgcctc | atgacctgtc | 900 |
| tcaaatgctg | cttctgggtg | ctggagaagt | tcatacaaatt | ccttaatagg | aatgcctaca | 960 |
| tcattgattgc | catctacggc | accaatttct | gcacctgggc | caggaatgcc | ttcttctctg | 1020 |
| tcattgagaaa | catcatcaga | gtggctgtcc | tggataaagt | tactgacttc | ctcttctctg | 1080 |
| tgggcaaaact | tctgactggt | ggtagtgtgg | ggatcctggc | tttcttcttc | ttcaccacc | 1140 |
| gtatcaggat | cgtgcaggat | acagcaccac | ccctcaatta | ttactgggtt | cctatactga | 1200 |
| cggtgatcgt | tggctcctac | ttgattgcac | acggtttctt | cagcgtctat | ggcatgtgtg | 1260 |
| tggacacgct | gttctctctg | ttcttggagg | acctggagag | gaatgacggc | tcggccgaga | 1320 |
| ggcnttactt | catgtcttcc | accctcaaga | aactcttgaa | caagaccaac | aagaaggcag | 1380 |
| cggagtcctg | aaggccccgt | gctccccacc | tctcaaggag | tctcatgccc | cagggtgctc | 1440 |
| agtagctggg | tctgttcccc | cagccccctg | ggctcacctg | aagtccctat | actgccgctc | 1500 |
| tgccccctcc | catgagccag | atcccaccag | tttctggacg | tggagagtct | ggggcatctc | 1560 |
| cttctttatg | caaggggcgc | ttggagtttt | catggctgcc | cctccagact | gcgagaaaac | 1620 |
| agtaaaaaac | cattggggcc | tcttgatgtc | tgggatggca | cgtggcccga | cctccacaag | 1680 |
| ctccctcatg | cttctgttcc | cccgcttaca | cgacaacggg | ccagaccacg | ggaaggacgg | 1740 |
| tgtttgtgtc | tgaggggagt | gctggccaca | gtgaacaccc | acgtttattc | ctgcctgctc | 1800 |
| cggccaggac | tgaaccctt | ctccacacct | gaacagttgg | ctcaagggcc | accagaagca | 1860 |
| tttctttatt | attattattt | tttaacctgg | acatgcatta | aagggtctat | tagctttctt | 1920 |
| tccgtctgtc | tcaacagctg | agatggggcc | gccaaggagt | gccttctctt | tgctccctcc | 1980 |
| tagctgggag | tgacgggtgg | gagtgtgtgt | gcccaggtgg | gggtgtctcc | tggctgggaa | 2040 |
| ggaggggaaag | ggaggggagag | ttttgcgggg | ggtggcagtg | gagagcaggc | tggagaggag | 2100 |
| atgggctaata | gctgtttaat | ggaaacctgc | tgggctggag | ggagttaggc | tgaatttccc | 2160 |
| gacttctctc | gccagtattt | gacacagctc | tctttgtaag | agaggaaaaga | aactaaaccc | 2220 |
| acccaaggga | tgatttcagg | gggagaggtg | gagggcagat | gtcctgggca | aaccggggccc | 2280 |
| ctctgcccac | acacctcact | tgatcctttt | gccaaacttg | tcaaaactcag | gggaactggc | 2340 |
| ttcccagttg | cccccttgcc | atattccaag | tccccctcag | acttcatgtc | tctgctcatc | 2400 |
| agcactgtcc | caggatcctg | gagagggaga | acccctggcc | ccaggggaaa | gagggggggg | 2460 |
| tctcccgttt | cctgtgcctg | caccagccct | gccccatttg | cgtctgcaca | ccccctgcgtg | 2520 |
| taactgcatt | ccaaccacta | ataaagtgcc | tattgtacag | gtmaaaaaaa | aaaaaaaaaa | 2580 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 2640 |
| ggggg | | | | | | 2645 |

<210> 828

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<211> 1098
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (74)..(74)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (346)..(346)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1085)..(1085)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1093)..(1093)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1095)..(1095)
<223> n equals a,t,g, or c

<400> 828
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acgcgggcaa gatggaggcg actacggctg gtgtgggccc gctagaggaa gaggcgttgc      180
ggcgaaagga acggctgaag gccctacggg agaaaaccgg gcgcaaggws agaagtgkgg      240
agtgagggtc gcagttgagg cgtccagcgt tcgggggtccg ggtcgcgctt gaggagagca      300
aagggtaat aaggaaagac agctgccgag ggcgcgcgat cgggngcgt aacgcatgcg      360
cgagaagacg ggcgcctcc cagatgtct ggggctgctt ggcgtgggac tcctctggcg      420
ctgggtcggg cgtcgcgcac gcgcgggggt gggcaargca gtggtcagcg acccgagtc      480
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cacttgaggt tagtagttcg agaccaggct ggtaacatg gtgaaacccc gcctctacta      840
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ctatggcagg agaaccgctt gagcctggga ggtcagaggt tgtagtgagt ccgagatctc      960
gccactgtac tccagcctgg gcaacagagc gagatccgtc tcaaaaaaaa aaaaaaggg      1020
cggccgctct agaggattcc ctcgaggggc tcaagttyac gcgtggcatg cgwmgtgcag      1080
ctgntgcccc tgnngtgg                                     1098

<210> 829
<211> 1063
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (23)..(23)
<223> n equals a,t,g, or c

<220>

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<221> misc_feature
 <222> (27)..(27)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (30)..(30)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1032)..(1032)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1055)..(1056)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1062)..(1062)
 <223> n equals a,t,g, or c

<400> 829
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 tattaaaata atgcaaaca ccaaatatga attttatgat gtacactttg tgcttggcat 180
 taaaagaaaa aaacacacat cctggaagtc tgtaagtgt tttttgttac tgtaggctct 240
 caaagttaag agtgtaagtg aaaaatctgg aggagaggat aatttccact gtgtggaatg 300
 tgaatagtta aatgaaaagt tatgggttatt taatgtaatt attacttcaa atcctttggg 360
 cactgtgatt tcaagcatgt tttctttttc tcctttatat gactttctct gagttgggca 420
 aagaagaagc tgacacaccg tatgttggtta gagtctttta tctggtcagg ggaaacaaaa 480
 tcttgaccga gctgaacatg tcttcctgag tcagtgacctg aatctttatt ttttaaatg 540
 aatgttcctt aaagggttaac atttctaaag caatattaag aaagacttta aatgttattt 600
 tggaagactt acgatgcatg tatacaaacg aatagcagat aatgatgact agttcacaca 660
 taaagtcctt ttaaggagaa aatctaaaat gaaaagtggg taaacagAAC atttataagt 720
 gatcagttaa tgcctaagag tgaagtagt tctattgaca ttcctcaaga tatttaatat 780
 caactgcatt atgtattatg tctgcttaaa tcatttaaaa acggcaaaga attatataga 840
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 tttggcttca agtttcatga atctgtaact agaatttaat tttcacccca ataagtctt 960
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<210> 830
 <211> 1178
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n equals a,t,g, or c

<400> 830
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| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|------|
| ctttctgtgt | gtgtgagcgt | gcgtttgtgt | ttggtagtgt | tcctagggca | gaggtggagc | 120 |
| agggatgcac | ttatcatggg | aagggaggta | gaaaagagaa | ttggatagcc | tgtgatcttt | 180 |
| ggtggaattt | attccttttg | cctaggcctt | tcagaccctg | cttgatttcc | gtaggacact | 240 |
| tcaggttgtg | gcaagggaga | gctggctctg | aatcggaagt | accagcctct | tccttagagc | 300 |
| acaactagaa | agaagaacta | tagagtgtta | taagggaggc | cctgagatgg | aaggaccatc | 360 |
| acacagaaat | gataataact | tcatttcagg | gtgttcagg | ggaaaagcag | gagaaaagatt | 420 |
| tggggctcag | tagaaggaaa | agcttcctag | tgataagagt | gattggcaat | accatgaggt | 480 |
| acctttaaaa | gatagtgaac | tcctgtcctt | ggaaatatta | aaccacaggc | tagatatcat | 540 |
| ttaataggga | tgtgaagtag | agtaagtcac | tgcccttggg | gtgcaattgt | gaacttgtca | 600 |
| atttctgagg | tccttttcta | ccttagatata | taatacaaga | tttctattag | gtatgggtgc | 660 |
| tctgatgata | atgaaaatcc | cagcagytat | gtatgggatg | gttacaccag | acactgtgct | 720 |
| aaggattttc | tttgaattgt | ttctcactca | atcttcacgg | tagctcagtg | aggtaggtac | 780 |
| cattatcact | gstagaaagc | agtgaactta | tatggtctta | ctgtggcact | gggtccttaa | 840 |
| acattatgca | aaactgtgag | caacttttat | cggtttgttc | ttttaagaac | ataacacagc | 900 |
| actctaaaaa | tagatctaac | tagattgttc | acatctagcg | attaaggcca | ccctgagatt | 960 |
| atagctgcat | catcaggrac | ccaagatctg | aagcattcag | tcaaagcctc | ttggccacct | 1020 |
| ctctttttgt | catggccttc | ttggacttgg | agggggagaa | tggaaagcaag | taccaaggag | 1080 |
| aaagtgttct | cagaaaagcc | acaccatta | gaaaataca | aggccagtcg | acgcggccgc | 1140 |
| gaattcccg | gtcgacgagc | tcactagtcg | gcggccgc | | | 1178 |

<210> 831

<211> 2522

<212> DNA

<213> Homo sapiens

<400> 831

| | | | | | | |
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| tcatacaacgc | aattgcaact | ccggctggag | ccccggacct | gcaagcctgg | gtgtccgtgg | 120 |
| gtccgtctgc | ccagccatct | gctgtgggca | cctctccctc | ctgccgcctc | cctcggtgaa | 180 |
| ccccaccttg | cagaagtgc | gctcgcccg | agcagccag | gagctcagca | tgcgtcccc | 240 |
| aggettccagg | aacttcttgc | tgctggcgtc | ctcccttctc | tttctgtggg | tgctcagctgt | 300 |
| tcctcaaagc | ttctcgccat | ctctgaggag | ctggccgggc | gccgcctgca | ggctgtcccc | 360 |
| ggccgagtcg | gagcgacgct | gccgcgcacc | tgggcagccc | ccggggggccg | cgctgtgcca | 420 |
| cgccgggggc | cgctgcgact | gcggcgctcg | catctgccac | gtgactgagc | cgggcatggt | 480 |
| cttcggggccc | ctgtgtgagt | gccatgagtg | gggtgtcgag | acctacgacg | ggagcacctt | 540 |
| tgcaggccat | ggtaagtgtg | actgtggcaa | gtgcaagtgt | gaccagggat | ggtagggga | 600 |
| tgcttgccag | taccacaacta | actgtgactt | gacaaagaag | aaaagtaacc | aaatgtgcaa | 660 |
| gaattcacaa | gacatcatct | gctctaagtc | aggtacatgt | cactgtggca | gggtgaagt | 720 |
| tgataattca | gatggaagt | gacttgtgta | tggtaaat | tgtagtgtg | acgatagaga | 780 |
| atgcatagac | gatgaaacag | aagaaatatg | tggaggccat | gggaagtgtt | actgtggaaa | 840 |
| ctgctactgc | aaggctgggt | ggcatggaga | taaatgtgaa | ttccagtgcg | atatcacc | 900 |
| ctgggaaagc | aagcgaagat | gcacgtctcc | agatggcaaa | atctgcagta | gcagagggac | 960 |
| ttgtgtatgt | ggtgaatgta | cctgtcacga | tgttgatccg | actggggact | ggggagatat | 1020 |
| tcattggggac | acctgtgaat | gtgatgagag | ggactgtaga | gctgtctatg | accgatattc | 1080 |
| tgatgacttc | tgttcaggtc | atggacagt | taattgcca | agatgtgact | gcaaagcagg | 1140 |
| ctgggtatggg | aagaagtgtg | agcaccaca | gtcctgcacg | ctgtcagctg | aggagagcat | 1200 |
| caggaagtgc | caggaagct | cggtatctgc | ttgctctggg | aggggtaaat | gtgaatgtgg | 1260 |
| caaattgcacc | tgctatcctc | caggagatcg | ccgggtgtat | ggcaagactt | gtgagtgtga | 1320 |
| tgatcgccgc | tgtgaagacc | tcgatgtgtg | ggctgtgtga | ggccacggca | catgttcctg | 1380 |
| tggtcgctgt | gtttgtgaga | gaggatggtt | tggaaagctc | tgccaacatc | cgcggaagt | 1440 |
| taacatgacg | gaagaacaaa | gcaagaatct | gtgtgaatca | gcagatggca | tattgtgctc | 1500 |
| ggggaagggt | tcttgtcatt | gtgggaagt | catttgttct | gctgaagagt | ggatatattc | 1560 |
| tggggagtgc | tgtgactgtg | atgacagaga | ctgcgacaaa | catgatggtc | tcattgtgac | 1620 |
| caggggaatgg | aatatgtagc | tgtggaact | gtgaatgctg | ggatggatgg | aatggaaatg | 1680 |
| catgtgaaat | ctggcttggc | tcagaatata | cttaacaatt | acatgagaga | ggctctggatt | 1740 |
| cttatttttt | ctgggccatt | agaacatata | aatgcgaagg | aaaccatgta | tattcaccac | 1800 |
| taggacaggt | taaaaagacc | attgtatgtt | tttctatttc | tgaattacga | atgaaatccg | 1860 |
| agtacctatt | agaaatgagt | tatgcaaatt | tagatgcaaa | taacattaga | aaaaaaagat | 1920 |
| tcttccataa | ttaacataag | tggttcctaa | cgagagcaat | ttttccacc | aaaagtcatt | 1980 |
| tggcaacatc | tacagacaat | tttgattgtc | acactgggtc | gggtagggaag | gtatgtgca | 2040 |

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<211> 1258

<212> DNA

<213> Homo sapiens

<400> 833

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<210> 834

<211> 2527

<212> DNA

<213> Homo sapiens

<400> 834

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| tgacagcttac | aacaagaaaa | agaagcgtat | ggactactat | gactctgaac | accatgaaga | 1800 |
| ctttgaattt | atttcaggaa | cacgaatgcy | caaacttgct | cgagaaggcc | agaaaccacc | 1860 |
| tgaaggtttc | atggctccca | aggcttggac | cggtgctgaca | gaatactaca | aatccttgga | 1920 |
| gaaagcttag | gctgttaacc | cagtcactcc | acctttgaca | cattactagt | aacaagaggg | 1980 |
| gaccacatag | tctctgttgg | catttctttg | tgggtgctgt | ctggacatgc | ttcctaataa | 2040 |
| cagaccattt | tccttaactt | gcacagttt | tgggtgctgt | tatgagttct | gttttgaaca | 2100 |
| agtgtaacac | actgatgggt | ttaatgtatc | ttttccactt | attatagtta | tattcctaca | 2160 |
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| agctgttata | ttagtgttaa | ccagtagtat | tcacattaaa | tcttgccttt | tttccctta | 2280 |
| aaaaaagaaa | aaaattacca | aacaataaac | ttggctagac | cctgttttga | ggattttaca | 2340 |
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<210> 835

<211> 1971

<212> DNA

<213> Homo sapiens

<400> 835

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| gaccacacaa | gccatgatcc | tgcaactcaa | tccagtgag | aactgcacct | ggacaataga | 180 |
| aagaccagaa | aacaaaagca | tcagaattat | cttttccctat | gtccagcttg | atccagatgg | 240 |
| aagctgtgaa | agtgtgaaac | ttaaagtctt | tgacggaacc | tccagcaatg | ggcctctgct | 300 |
| agggcaagtc | tgacgtaaaa | acgactatgt | tctgtatatt | gaatcatcat | ccagtacatt | 360 |
| gacgtttcaa | atagttactg | actcagcaag | aattcaaaga | actgtctttg | tcttctacta | 420 |
| cttcttctct | cctaacatct | ctattccaaa | ctgtggcggt | tacctggata | ccttggaagg | 480 |
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| gactgtcgtg | ttgtctacag | attatgccaa | ttcttaccgg | ggattttctg | cttccctacac | 780 |
| ctcaatttat | gcagaaaaca | tcaacactac | atctttaact | tgtcttcttg | acaggatgag | 840 |
| agttattata | agcaaatcct | acctagaggc | ttttaactct | aatgggaata | acttgcaact | 900 |
| aaaagaccga | acttggcaga | ccaaaattat | caaagtgtgt | ggaattttct | gtccctctta | 960 |
| atggatgtgg | tacaatcaga | aaggtagaag | atcagtcaat | tacttacacc | aatataatca | 1020 |
| ccttttctgc | atcctcaact | tctgaagtga | tcaccctgca | gaaacaactc | cagattattg | 1080 |
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| attcatttga | aaagactata | cttgaatcac | catattatgt | ggatttgaac | caaactcttt | 1260 |
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| gtcgagatga | aacttgtaag | gtgtatccct | tatttggaca | ctatgggaga | ttccagttta | 1440 |
| atgcctttaa | attcttgaga | agtatgagct | ctgtgtatct | gcagtgtaaa | gttttgatat | 1500 |
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| ctgtagcgac | aatcacagtg | aggcattttg | taaatcaacg | ggcagactac | aaataccaga | 1800 |
| agctgcagaa | ctattaacta | acaggtccaa | ccctaagtga | gacatgtttc | tccaggatgc | 1860 |
| caaaggaaat | gctacctcgt | ggctacacat | attatgaata | aatgaggaag | ggcctgaaag | 1920 |
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<210> 836

<211> 2081

<212> DNA

<213> Homo sapiens

<400> 836

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<223> n equals a,t,g, or c

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<400> 837

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| attgaggtta | tgaatagaga | gctcaatttg | tacctttgct | gtcttgctca | agcttggtat | 960 |
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| gctgcgataa | atcttttgga | ttttgtgtgt | tttctaata | gaatactgtt | tttcattacc | 1080 |
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| aaaaccagca | tctctgatgt | tgcaacatac | gtgtaaaatg | ggtgttacat | ctatcctgcc | 1380 |
| atttaacccc | acagttaata | aagtggctga | aaataatagt | agctctggct | tggtgcttga | 1440 |
| cctgggttaa | tactgtctta | aagctcatac | aaaacaaata | ggcttttcca | taagtggcct | 1500 |
| taagaaaac | atggaagaca | attcatgttt | gacaaatgct | gacaggggtga | agaaagccca | 1560 |
| gtgtaaaaa | gaatcgcggt | ttaagtgttt | cggttaaaga | gtttgggctc | ccgtagcaaa | 1620 |
| ctaatactag | ataataagga | aatgggggtg | aaatatattt | ttattgttga | atcattttgt | 1680 |
| gaatgtcccc | ctcaaaaaaa | gctaattggaa | tatttggcat | aaagggcatt | tggtgggttt | 1740 |
| atttttgttt | gagggggwtt | gtcagaaaaa | cccttttctc | tcttacgyct | aactgactag | 1800 |
| ggaacaattg | ttgatatgca | tagcattggg | aatacttgtc | attatatact | cttacaaata | 1860 |
| acacatgaag | caagaatgac | caatattctg | nataattggg | cactggggtc | acaaaatgtg | 1920 |
| ataaaaacttt | aaatgtataa | aactttatca | aataaagtgt | tattttcccc | tttaaaatgt | 1980 |
| atctctttag | aggcattact | tttttaaaaa | tattgggtcaa | ttcctgacat | aagatgtgag | 2040 |
| gttcacagtt | gtattccagt | attcaagata | gattcctgat | ttttcaatta | ggaaaagtaa | 2100 |
| aatccaaaat | gttagcaaaa | caaagtgtca | tattaaatgt | ttgctttata | gatttatattc | 2160 |
| tatggctgtt | tgtaatattt | ctttttttcc | ttttttattt | gggtgtgaat | atgtccttgt | 2220 |
| aggtctctgt | ttaagaaaac | aatatgtggg | aaatgattta | atttttccta | ttgtctcttc | 2280 |
| ttgtggaaaa | taaagtgttt | tgtttttttc | tgttttgtaa | aaaaaaaaaa | aaaaaaaaaa | 2340 |
| aaaaaaaaaa | aagaangaga | a | | | | 2361 |

<210> 838

<211> 510

<212> DNA

<213> Homo sapiens

<400> 838

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| gcacagactc | tcctggcccc | ctgtcccttt | ggaaagaaga | cagggatgaa | atataatcaa | 60 |
| gcaattaacc | acccccatca | tcaccaagaa | caacagtatc | aacaagaaga | acagggacaa | 120 |
| caaaacccac | ggatgaaaca | ttcctttctc | agctcagatc | ttatctgggtg | cgttctctct | 180 |
| ctgctctgtc | ttggtgtgtg | gttttagagaa | acatggacaa | cgctgttttg | aagaacaggg | 240 |
| cttcccagga | atcaacaatg | cccaagaagg | aagggtattg | agaaatagct | taaccctttc | 300 |
| atttaccaac | gtggaaattg | aagcccaggg | aagggaaggg | accggtcgtg | gaagggagag | 360 |
| ccatcagcag | aaagagaccc | tgagatcttc | gcctgggatt | cccaggaagt | ccagcccag | 420 |
| ctgattcaca | gaataaatgc | atgcaaacct | tgctatcaat | aaattacaca | tgactttacg | 480 |
| taaaacmcaa | aaaaaaaaaa | aaaaaaaaaa | | | | 510 |

<210> 839

<211> 1739

<212> DNA

<213> Homo sapiens

<400> 839

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|
| ggcacgagag | atcctcagga | tatcttttagc | caaaggaaaa | gtcccgcatc | cccacctggg | 60 |
| gggaaagctg | gattgccatg | ggcacgaata | gtgggtgcaga | gtccctggcc | atcctgaata | 120 |
| tccagaatgg | tgtttctgaa | gttcttctgc | atgagtttct | tctgccacct | gtgtcaaggc | 180 |
| tacttcgatg | gccccctcta | cccagagatg | tccaatggga | ctctgcacca | ctacttcgtg | 240 |
| cccgatgggg | actatgagga | gaacgatgac | cccagagaagt | gccagctgct | cttcaggggtg | 300 |
| agtgaccaca | ggcgctgctc | ccagggggag | gggagccagg | ttggcagcct | gctgagcctc | 360 |

```

accctgctggg aggagttcac cgtgctgggc caccaggtgg aaggatgctg ggcgcgtgct 420
ggagggcatc agcaaaagca tctcctacga cctagacggg gaagagagct atggcaagta 480
cctgctggcg gagtcccacc agatcggggg atgcctactc caactcggac aaatccctca 540
ctgagctgga gagcaagttc aagcagggcc aggaacagga cagccggcag gagagcaggc 600
tcaacgagga ctttctggga atgctggtcc acaccaggtc cctgctgaag gagacactgg 660
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gaccgcacta gtcggctgaa aaatgattat cttaaagtat aggtggaagg atacaaatgc 780
ttagaagag ggaatcaaata cagccccgtt ttggaagggtg ggggacagaa aatggggcta 840
catttcccc atacctacta tttttttata tcccgtattg cactttgaga atacatctaa 900
ggtcatcttt caaaagagaa aaattggaca cttgagtgac tttgttttta gttttgtttt 960
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gtctgtttat tggaacttg tacttcaagt agggggaatc ctaattctaa taactcctta 1680
gctaagtttt attattcagg caataaacat gttttcatgt aaaaaaaaaa aaaaaaaaaa 1739

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<210> 840

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (61)..(61)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (351)..(351)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (436)..(436)

<223> n equals a,t,g, or c

<400> 840

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gcctccctgc ccctccagta aactcccaca caaaatagca gtatgaggtg tggggaaata 180
atcttgccct cgttccctgg tttacttttg actctgccac ctacaagctg tcacctgaac 240
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gggaatgaag cagggtagcg gcctctgctt cagcaactct gaggggtcta ncttggttgg 360
ggagttggcc tcatccagaa ggctgctgga aggccaaagac aaggctcttg tggggaagtg 420
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438

<210> 841

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (462)..(462)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (498)..(498)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (520)..(520)

<223> n equals a,t,g, or c

<400> 841

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gcttgtaggt | actcattgag | gtttattgtg | taagatgaat | gaatgttgca | aattcctaaa | 60 |
| catgtgattc | agatgcccaa | tcttactctg | ttactttatg | aaaatttttt | aaagctatat | 120 |
| gatgttatat | caaaatatgt | tggtatactt | taggataatc | ggtgtgttag | ccctgaattt | 180 |
| cagcataagt | cccatttttt | tccatgggag | tctaggaaag | ctatatgttt | attcagcagc | 240 |
| aaaatacagt | ttggaaactta | aataaactat | tgatcaattc | tggtcttatg | ctagaaggaa | 300 |
| taaagcatca | agaaaaagaa | aagattgctg | tcaagaccag | gaaaattgac | aatagagtat | 360 |
| tagaatgcag | aaatgagggg | aagtggaaar | gccascaagt | aggagagaaa | aagtgcaggg | 420 |
| acagtagaaa | gtgaatgtag | gagcttctga | cccagcactc | angaacgcaa | ttcatcccta | 480 |
| aaaagctggt | gcgtctangt | tgccagtaac | caattaaaaa | ccgtttgaag | tagagtga | 538 |

<210> 842

<211> 1346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (17)..(17)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (21)..(21)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (107)..(107)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (150)..(150)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (323)..(323)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1307)..(1307)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1337)..(1337)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1341)..(1341)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1343)..(1343)
 <223> n equals a,t,g, or c

<400> 842
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 gaatgcaggt gtgtctgtcc tgcaaccag ctcttggtc tggaaancca gctgcatcac 120
 ccatgtgcct ggaccttctc cagaccatgn agggcccaggc gagtgcactca ctgccattca 180
 gtctccatct ttgggcagat ccaccatgag acataacttc ccagaaatcc agttacaagg 240
 aggaataagt attgaagact taagaaatgc attttgcagc aggtcctcgc tgtactgggg 300
 cagcgggtcca ttcataagagc ccngctagaa tagaggtcac aagctcagaa gcttctctaa 360
 ggcaggcagg aaattttaagt cgatactatg atctgcattg tgggctggaa tgaacggaag 420
 gtgcctagtc taaacagctg cttgttgctc agctgttgtt gccgtattgg gaattcaagc 480
 ctaatgatgt ttggtattcc cattttcaaa agaagtcagg aaatgcagat ttctatgtaa 540
 atttttaaaa ctcttgaact gtgtatgagc catacaaaat acatttgcag gccagtcgac 600
 atcctctgat ccagaatatac aatttgtgag acaagttgtt ggtgaggcag cattmcatag 660
 tagttaaaag catacatttt agagccagac tgcccatgtc caaaccttgg tcccatcact 720
 cactmcctty catttcactt ctctttgctt cactttcctc atcagtaaaa taaaaataat 780
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 ttcaatgcta tcaggcattt agttacatgg taaataagtg tttaaaacat ttaaaacaaa 900
 agttcaaaga taataarcaa ggaaacagaa aacctgacag gccagctttg gaaccttctt 960
 gatggcagat ctatcaacat ttctcccttt ggctgggatg aaaaggcatt tgggaataaaa 1020
 agatcccata aaaataaatg agaagaagtg aaacaccttc attatggcaa ttttgggtgtc 1080
 agagcctaaa agacagaggg atcaaaatat tgcagtacta aaatctgatg gtttcatgta 1140
 gaaatgagat ttaagcttat taaaatgtat ttctttctgg tgtaataaac ccttcacaag 1200
 acctgggcaa ttttgaaaga aggaaagaaa atggttctcc ctgtggacaa raagaaacaa 1260
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<210> 843
 <211> 912
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (93)..(93)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (158)..(158)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (592)..(592)

<223> n equals a,t,g, or c

<400> 843

| | | | | | | |
|------------|-------------|------------|-------------|-------------|------------|-----|
| aaaatggttc | tccctgtggc | aagaagaacc | aaatgnctat | taaattttct | aatttgaggt | 60 |
| gaactaagtt | gatccctagg | tttttgtggg | agnccggggt | gggggagtc | agtggaaagc | 120 |
| aattgctgga | gagtagtcct | tggtctttgc | tgacaganca | ggagcagagt | gtggaatgaa | 180 |
| aactcaatag | cctcctctat | tctcaagaga | caattgactt | ccatctgttt | aaacctcccc | 240 |
| aggggaccct | gctcccccca | tttccattta | ctctcctttc | caccaacctta | gggtgacatt | 300 |
| aagaaaacca | aacctatttg | aaacacaagc | tcttacacat | caaaagtcag | gggagaagtc | 360 |
| tggttgacct | gtaagccact | gcatgaggca | caaagatgca | aaaaggaact | ttcaggaaca | 420 |
| actgctgctc | cgaggactct | atgtcagata | taacatccgc | tttggcccaa | aagtaggctt | 480 |
| gagccccaga | agaggaggaa | tgctmagtat | gtttaaatag | tgaacctttt | agttatactt | 540 |
| gctctttact | cagaaaggag | agagtattcc | cttatgccaa | cgaggtctct | gngagttgtt | 600 |
| tgactatttg | gtagcagggtg | ctgcctgggg | tagctcttat | ggtctgtgct | tgaagtgtgc | 660 |
| accagctgct | gccctggaca | tgactgttgg | tccctgcata | caagcagcca | cctttaaaca | 720 |
| gatcaaata | ctcttatgat | gacagctgtc | tcaactrtact | ttcaaactgg | ttttaatttg | 780 |
| gttacttgca | acctaagaca | gcaracagca | ttttagggat | gaattgcgtt | cctgaagtgc | 840 |
| atgggtcaga | aagctcmtac | attcacttty | tactgtccct | gcactttttc | tatcctactt | 900 |
| gctgcccttc | ca | | | | | 912 |

<210> 844

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (12)..(12)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (925)..(925)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (953)..(953)

<223> n equals a,t,g, or c

<400> 844

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| agggtcaagg | gnagagaccc | aggtcctgac | agcactccct | gaccatgccc | ccatttctcc | 60 |
| ccagggttcc | acctgagtc | tacagtgggtg | ccacctcaga | tggtccctcc | taaagggggc | 120 |
| tacaacgtgg | ctgtgatgtt | tgaccgctgc | cgggtcactt | cctgcagctg | tacctgtggg | 180 |
| gctggggcca | aatggtgcac | ccacgtcgtg | gcactctgtc | tcttccgcat | ccacaacgct | 240 |
| tctgcagtct | gcctgcgagc | cccagtctca | gagtcctgt | cccgggtaca | gagggaccag | 300 |
| ctgcaaaagt | ttgctcagta | cctcatcagt | gagctccctc | agcagggtgg | tgaggtcggc | 360 |
| acccctctct | gcaattagct | ccgggccagg | ccgcataaca | gccttctctg | taggcccagg | 420 |
| cctccatggg | ttcacctagg | ccgtgttctg | cctgcctccg | tctctttctc | cctcagatcc | 480 |
| tccccacagc | tcagcgtctc | ctggackaac | tcctgtyttc | ccagtcaaca | gccatcaata | 540 |
| cagtgtgtgg | agctccggac | cccacagcag | ggccctcagc | atcggaccag | agtacttggt | 600 |

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atctggatga atcgacactc actgacaaca tcaaaaagac actgcacaag ttctgtggcc 660
cctyccctgt ggtcttcagt gatgtgaact ccatgtatct gtcttccacg gagccgccag 720
ccgctgctga atgggcatgt ctgctgcgcc ctctgagggg ccgtgagcca gagggcgctct 780
ggaaacctgct aagcattgtg cgggagatgt tcaagcggag ggacagcaat gctgccccct 840
tgttggaat cctcactgac cagtgcctca cctatgaaca gataacaggt tgggtgkata 900
gcgtacgtac ctacagctca cacancagtg ccagtgggca cacggggccg ttncaacggg 960
caatcagaag tggcaacca tgcctgtgcc acatt 995

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<210> 845

<211> 751

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (146)..(146)

<223> n equals a,t,g, or c

<400> 845

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gttctctgtg ctccaggtat gatgcntgac cctacagtaa gtggggaact ggggtagggg 180
tagctttctc taagaaagac caagagcccc aagtttctga atcaccttta ggacccatca 240
ggcagcttca tgggtaggtc tgtgatgatg aggattttgg gttccccctgt attttttccc 300
atgcatgata cttctgtctg cctgacttac cccaactttt atacagtggg ttctcccaca 360
ggttcccggc cccaagtgc caactggaac agcgagacac ctggggatga ggagcttggg 420
tttgaagcag cagttgtctg cttgggcatg aagacaacag tgagcgaggc agaacatccc 480
ctcttatgtg aaggcacacg tcgggagaag ggtgacctgg cattagcact aatgatcact 540
tacaaggacg accaggccaa gcttaagaag aaaattagcc gggcatggtg gcgcgcgcct 600
gtagtcccag ctactcggga ggctgaggtg ggagaattgc ttgagcccag gagtttgagg 660
ctacagttag ctataatcat accactgcac tccagcctgg gcaacagagc gagaccctgt 720
ctcttaaaaa aaaaaaaaaa agaaaactcg a 751

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<210> 846

<211> 1823

<212> DNA

<213> Homo sapiens

<400> 846

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tggtttggca ccaggtacc ctgcctcatc cccggggcct tggccagtct acacagagga 180
actgccctcc agctgagtta ccattttcc atggcaggga ggacagcaga aaggccgtgt 240
tccatgacta atcatagctt ccatctattg agcatttact gggagctggg cactgtgcta 300
agtgtgaac gtgtgttgac tcatttacta caacaacctg gcaaggcagt tcttccgta 360
gcccctgctc aaagctaggg gacctggagc acaggcggtc aagtgccttg ctcaaggcac 420
acagctcaaa gtgcagatcc tctgcccctc ctggcatccc agtctggggg ggtcaggggt 480
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gcctccgttt attcggagcc tgtgtatacc ctccctttca caaactgtag cagcctccag 720
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ccgggagcgt gtggttggtg cactgggat ttgagccttg ttccgtccag ctccagagct 840
tggtgccttt cttgctcacc acgtgccggc cccagctcgt tgccttggca gtggaggtgg 900
tggtgtgccg aggccttctt gcaccctggg ttctctggcg ctgagaaata agtgcatggg 960
caaagtggct ttgtttccag gtcagtgact gtgaccccat gtgtacacat ctgtgcatct 1020
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gaatgataac atccggctca cagaactgtg gtgagaatta gagatgggtg gtgtcgaatg 1260
attagcacct aatcagcatt ttacaataaa tgcaaatctt tcccttctcg tagaagagtg 1320

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| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| gagtctgatg | agagagacag | ggaagtga | attcacagcc | cctggatgcc | agtgtgaag | 1380 |
| gagtgggttc | aggactggga | acatcagaat | gggcatagtg | acttattctg | gggaagtc | 1440 |
| gaaaagctcc | ctggaggagg | tgatgaagg | gtaccaagc | ctggaagagg | ctggcagtg | 1500 |
| tactccagaa | acttcatgg | ggcctgcaat | ttgtgatgca | gatttttcc | actgtgaga | 1560 |
| tgctgggtga | gacaatttcc | tccttggagt | ggcctgggtt | tttaggggta | gggggagtg | 1620 |
| ccacgtgggt | gtagtctcta | gacagaagca | gtgggaggag | ggcactgcca | agcatgctgc | 1680 |
| ttgggattat | gggtgtccac | agagctgcag | tttctccaaa | gggtgttttt | gtttgttttt | 1740 |
| gagacagggt | cacactctgt | cacccaggat | ggagtgcagt | ggcccgatcc | tagctcactg | 1800 |
| caaccttgaa | ctactaggct | cga | | | | 1823 |

<210> 847

<211> 1964

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (49)..(49)

<223> n equals a,t,g, or c

<400> 847

| | | | | | | |
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| ttcctttagt | tcgggtgtag | tggggatgta | cgatacatc | ccagaacant | agccatatcg | 60 |
| caagtgatta | cctcataagg | acaaactgag | tcacgcgggt | cgccgtctag | aactagtgg | 120 |
| tccccgkct | gyaggaatc | ggcacgagtc | ttgtgccagg | actggggata | tggtgccgaa | 180 |
| ttggatacaa | gggagatggg | acgtcctcct | gtgtgtcttg | actgtcgggtg | tgttgccgag | 240 |
| cattggtagc | agagggggct | ggtttggcac | ccaggtagcc | tgccctcatcc | ccggggcctt | 300 |
| ggccagtcta | cacagaggaa | ctgccctcca | gctgagttac | ccattttcca | tggcagggag | 360 |
| gacagcagaa | aggccgtgtt | ccatgactaa | tcatagcttc | catctattga | gcatttactg | 420 |
| ggagctgggc | actgtgctaa | gtgtgaaacg | tgtgttgact | catttactac | aacaacctgg | 480 |
| caaggcaggt | tcttccgtta | gccccgtgct | aaagctaggg | gacctggagc | acaggcggtc | 540 |
| aagtgccttg | ctcaaggcac | acagctcaga | agtcagatc | ctctgcccc | cctggcatcc | 600 |
| cagtctgggg | gggtcagggg | tgggatctct | gcagtcagtg | cctgggggct | ggatgacaag | 660 |
| ctgcagcctc | cccgaacccc | cacgatttcc | atagcgcagt | ggagccagaa | agaaacagac | 720 |
| cattttacag | accagagaaa | caagggttgc | gctctctcag | accctggagc | cagtgcagag | 780 |
| gaaggcgkak | aagggacgag | agytccgtt | tattcggagc | ctgtgtatac | cctccttttc | 840 |
| acaaactgta | gcagcctcca | gaggcagggg | ggatctttat | gatgaccaaa | tggggaggct | 900 |
| tagggatttg | aaatcacttg | cccgggagcg | tgtggttggt | accactggga | tttgagcctt | 960 |
| gttccgtcca | gctccagagc | ttggtgcctt | tcttgctcac | cacgtgccgg | ccccagctcg | 1020 |
| ttgccttggc | agtggagggtg | gtggtgtgcc | gaggccttcc | tgacccctgg | gttctctggc | 1080 |
| gctgagaaat | aagtgcagtg | gcaaagtggc | tttgtttcca | ggtcagtgac | tgtgacccca | 1140 |
| tgtgtacaca | tctgtgcatc | tgaccgtggc | attgtaaccc | aggggcattt | tctaagtgat | 1200 |
| gtgtggggg | tgtgggcagg | gagtggggct | tatggagccg | acgagacacc | atcagaccat | 1260 |
| agagaggctg | cccaggcttg | ggagccatat | ggacctggat | ttgaccttga | acaggctcatt | 1320 |
| tcacctgagt | gtgtatagtg | ggaatgataa | catccggctc | acagaactgt | ggtgagaatt | 1380 |
| agagatgggt | ggtgtcgaat | gatttagcacc | taatcagcat | tttacaataa | tgcaaattct | 1440 |
| tcccttctcg | tagaagagtg | gagtctgatg | agagagacag | ggaagtga | attcacagcc | 1500 |
| cctggatgcc | agtgcctgaag | gagtgggttc | aggactggga | acatcagaat | gggcatagtg | 1560 |
| acttattctg | gggaagtc | gaaaagctcc | ctggaggagg | tgatgaagg | gtaccaagc | 1620 |
| ctggaagagg | ctggcagtg | tactccagaa | acttcatgg | ggcctgcaat | ttgtgatgca | 1680 |
| gatttttcc | actgtgaga | tgctgggtga | gacaatttcc | tccttggagt | ggcctgggtt | 1740 |
| tttaggggta | gggggagtg | ccacgtgggt | gtagtttcta | gacagaagca | gtgggaggag | 1800 |
| ggcactgcca | agcatgctgc | ttgggattat | gggtgtccac | agagctgcag | tttctccaaa | 1860 |
| gggtgttttt | gtttgttttt | gagacagggt | cacactctgt | cacccaggat | ggagtgcagt | 1920 |
| ggcccgatcc | tagctcactg | caaccttgaa | ctactaggct | cgag | | 1964 |

<210> 848

<211> 769

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (483)..(483)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (667)..(667)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (697)..(697)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (708)..(708)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (723)..(723)
 <223> n equals a,t,g, or c

<400> 848
 caccgcgggtg gcggccgctc tagaactagt ggatcccccg kctgyaggaa ttcggcacga 60
 ggtcttgtgc caggcactgg gatatggtgc cgaattggat acaagggaga tgggacgtcc 120
 tcctgtgtgt cttgactgtc ggtgtgttgc cgagcattgg tagcagaggg ggctggtttg 180
 gcacccaggt accctgcctc atccccgggg ccttggccag tctacacaga ggaactgccc 240
 tccagctgag ttacccattt tccatggcag ggaggacagc agaaaggccg tgttccatga 300
 ctaatcatag cttccatcta ttgagcattt actgggarct gggcactgtg ctaagtgkga 360
 aacgtgtgtt gactcattta ctacaacaac ctggcaaggc aggttcttcc gttagccctt 420
 gctcaaagct aggggacctg gagcacaggc ggtcaagtgc ttgggtcaag gcacacagct 480
 canaagtgcga gatcctctgc ccctcctggc atcccagctt gggggggtca ggggtgggat 540
 ctctgcagtc agtgccctggg ggctggatga caaagctgca rccttcccgc amccccacga 600
 ttcccatagc gcaatggagc cagaaagaaa cagaccattt tacagaccag agaaacaagg 660
 gtgctgntct cttaaaccct ggagccagtg acagggnaaa gccggaanaa aggaccaaga 720
 agnctccggt taattcggag cctggggaaa cccttccctt tacaaactg 769

<210> 849
 <211> 818
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (68)..(69)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (82)..(82)
 <223> n equals a,t,g, or c

<400> 849
 ctgtgcatct gaccctgtggc attttaaccc caggggcat ttttctaagt gatgtgctgg 60
 ggttgtgnnc agggagtggg cnttatggac cgcacgagac accatcagac ccatagagag 120
 gctgcccagg cttgggagcc atatggacct ggatttgacc ttgaacaggt catttcacct 180
 gagtgtgtat agtgggaatg ataacatccg gctcacagaa ctgtggtgag aattagagat 240
 ggtgggtgtc gaatgattag cacctaata gcattttaca ataatgcaaa ttcttccctt 300
 ctctgtagaag agtggagtct gatgagagag acagggaagt gaaaattcac agcccctgga 360

| | | | | | | |
|-------------|------------|------------|-------------|-------------|------------|-----|
| tgccagtgt | gaaggagtgg | gttcaggact | gggaacatca | gaatgggcat | agtgacttat | 420 |
| tctggggaag | tcatgaaaag | ctccctggag | gaggtgatga | aggggtaccc | aagcctggaa | 480 |
| gaggctggca | gtgtactcc | agaaacttca | tgggtggcctg | caatttgtga | tgcagatttt | 540 |
| tcctcactgt | gagatgctgg | ttgagacaat | ttcctccttg | gagtggcctg | gttttttagg | 600 |
| ggtaggggga | gtgcccacgt | gggtgtagtt | tctagacaga | agcagtgggga | ggagggcact | 660 |
| gccaaagcatg | ctgcttggga | ttatgggtgt | ccacagagct | gcagtttctc | caaaggtgtt | 720 |
| ttttgtttgt | ttttgagaca | gggtcacact | ctgtcaccca | ggatggagtg | cagtggcccc | 780 |
| atcctagctc | actgcaacct | tgaactacta | ggctcgag | | | 818 |

<210> 850

<211> 2052

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2045)..(2045)

<223> n equals a,t,g, or c

<400> 850

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| tttctttttc | aaatgctccc | aaggctcag | atgaagcgg | gaaaaaagat | tcagagttgg | 60 |
| ataagcactt | ggaatcacgg | gttgaagaga | ttatggagaa | gtctggcgag | gaaggaaatgc | 120 |
| ctgatcttgc | ccatgtcatg | cgcatcttgt | ctgcagaaaa | tatcccaa | ttgcctcctg | 180 |
| ggggagggtct | tgctggcaas | cgtaatgtta | ttgaagctgt | ttatagtaga | ctgaatccac | 240 |
| atagagaaa | tgatgggggt | gctggagatc | tagaagaccc | atggtagcct | taaaaacctt | 300 |
| ctaaaatgct | tttrattctg | aaaattgggg | gaaaaaactt | ttaatcaca | ttttcttcaa | 360 |
| tacaagggga | aaatattctt | gctgattccc | aacgttttgt | gatatgagca | gaaaatcatt | 420 |
| agcatttccc | atcatttggt | catatttggt | ttttctgaca | gttgccactt | gtagcattgc | 480 |
| ctgtactaca | gtattttttg | ccaacctcag | gcatactcgt | tacatctgta | ttgaactttc | 540 |
| ggccctagaa | accagtggag | ttatttcacc | acaaatcaac | aatgtgcctg | aggtgcattg | 600 |
| gaaatatagt | tagctatact | ctgaaaatac | attatgtttt | ttttctttaa | acaaaacaca | 660 |
| caacatgtaa | gcatgtaaga | gtaaagaatt | gtatgatatg | ttcctttttt | cagttcacca | 720 |
| agttggaagc | cttttgcagc | tctgtggctt | ggaatttcat | ttgagcaatt | tctataggat | 780 |
| atgtatttat | tattgattgt | tatttaawtt | ttttcccaat | ttacctgta | ttaccaaact | 840 |
| gggttctcca | ataatgtcca | aattgtaatg | ttgccttgct | tcaagataaa | gtgtatttgg | 900 |
| gaataatatt | ataaaccttt | acaaatttta | tgcattgtatc | tactgcatcc | ttcaactctc | 960 |
| actagaaaat | cttttgaac | caaattggatt | aatttatggc | tatttataat | ttgctttgac | 1020 |
| atctcactgt | tggaaatttt | ttaaagatga | gatttgcctt | tataatgtaa | atttgtattt | 1080 |
| ttgttttaca | tgtgggtttc | tatagtttta | attttttcag | cttttaagat | acgagttttg | 1140 |
| tgtaatttgg | tattttta | catttatgtt | attttaaaag | ctcagaatat | cacattgaaa | 1200 |
| ttactataaa | tacatttaaa | attatctatt | ttagatctaa | ggaaatacta | cagagatatt | 1260 |
| ttcatgggtg | cagtaacttt | tcattttata | acattgggca | cgggtacagag | tgattgtcac | 1320 |
| ataaggtact | tgaagattta | ttagtttaat | tctattttta | cagtaacctt | gaattcttct | 1380 |
| gagttttgca | tgtattaaat | tcaattaatg | ctgaacatga | agagtaaagt | atttatctga | 1440 |
| aagaagtttc | tgggttagga | gaagtaatga | atgtatccat | ttgtacatgg | tttacatggt | 1500 |
| gtggatgctt | tgtaaacatt | ttcctgtatg | tttaaattgt | gtttcagcag | gatgtaattg | 1560 |
| cccttgtgtg | tagttaaaat | gagtcacat | ctggtccttt | gtgaaatgga | attcatggta | 1620 |
| ttttctgtaa | cgttttcctg | aagctgtttc | tggagagcca | cacattttaa | tacagacagc | 1680 |
| tttcctgatc | atttgattta | ttgtgcacct | gatttttggt | ctaaaaggaa | ttattgccac | 1740 |
| aatatatttt | atttattctt | tagatttttag | ccttgtaagt | taaagtgtct | tacatgatga | 1800 |
| tgtgaaaagc | tgtttgtccc | tttactgggt | ttgggggggt | gttaaaagat | agggaaatgaa | 1860 |
| gaatgcaaaa | tggtttatcg | ttcaaacctg | ccactctgat | ccaaccctgt | actgatagta | 1920 |
| cttcccagta | tgatattgtg | atgtttcata | caatgcagtg | aacataacca | acttgttacc | 1980 |
| taaataaaga | attgataaaa | acagtgtgac | atattaaaaa | aaaggggggc | ccggtaccca | 2040 |
| attcnccta | ta | | | | | 2052 |

<210> 851

<211> 891

<212> DNA

<213> Homo sapiens

<400> 851

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgagccttga | gctagcattt | cattatgacc | gtgatttttc | cccgcaccac | 60 |
| tttccagcct | tgtggtccac | aattccactg | ggccttaagt | atgtactgaa | ctttcctgcc | 120 |
| tccctcattt | tgctctgctt | gtgcaatttt | ttccaccctc | catctctgtc | aaacgtaagc | 180 |
| cttctctgacc | tctaagacct | acctttgtca | tgtaccttta | ccctcaggca | aggagcaatc | 240 |
| tcttctcttc | ctcttctacc | ttgctgtagc | ttctcccca | ggatttatca | cattctgcct | 300 |
| tgaatcatag | ggaacagcat | gtgtagtgg | atgaacacag | gcctctgaat | ccaagatacg | 360 |
| agtttaaatt | ccagctttgg | agggtggtac | ttaaagtctc | agtgccctta | ttcttctycc | 420 |
| tatataaagt | agatattaca | atatctaact | tacagagtca | ttgggagcta | tacatgcagc | 480 |
| gattgggtaa | agcacctggc | acatggcaag | cgattagcaa | atgctgggta | cttctacttc | 540 |
| tttctcttcc | cttttcccag | tctatcataa | tttccctgar | arcaggcacc | atgtcttatt | 600 |
| tacccttcta | tttcccacag | tacttcccat | agtgarttac | ccttagtaaa | tacycagtaa | 660 |
| gttgaattga | atttaaatta | mctgtaagtc | ttaaagtgtg | ggattaaatt | aagaatatat | 720 |
| tgctctggaa | ataccaagt | gtctattgat | ggatgaatgg | ataaacaaaa | tgtgggtatac | 780 |
| acataatgga | atattattca | gccttaaaaa | ggaatgaaat | tctgacatgt | gctacaatat | 840 |
| gatgaacctg | gaagacatta | tatgtgaaat | aagccagaca | gaaaaggaca | a | 891 |

<210> 852

<211> 501

<212> DNA

<213> Homo sapiens

<400> 852

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| aaagtacagg | ttgacatcca | aaatctgaaa | tgagaaatgc | tccaaaaact | gaaacttttt | 60 |
| caatgccgac | acgatgctca | aagaaaatgc | taattggagc | atttcagatt | ttggattttt | 120 |
| ggatttgagg | tgctcaactg | gcataatgtg | aatattccaa | actctgaaaa | aatctgaagt | 180 |
| ctaaacact | tctggtctca | aggatttttg | ataaaggata | ctcaatgtgc | aacatgtaga | 240 |
| atggtggttg | caaggtggga | ggagagaatg | gagagtact | gtttaatgat | acaatgtttc | 300 |
| cgtttgggaa | gatggaaaagt | tttgagatg | tgtgatggtt | atggttgccg | aacaatggga | 360 |
| aggtacttag | tactgcttaa | ctgtgcacac | ttaaaaatgg | taaaaatgat | aaattttgtg | 420 |
| tatgtcttaa | aacaataaaa | gaagtttttt | aaaaaaaaaa | aaaaaaaaaa | aactcgaggg | 480 |
| ggggcccgta | cccaatcgcc | t | | | | 501 |

<210> 853

<211> 1340

<212> DNA

<213> Homo sapiens

<400> 853

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| ggcacgagaa | agaaaggcga | gagaaaaatc | aaggcaccaa | atttagattg | gaggtctcag | 60 |
| aggagcagtg | ttttccctcc | ttcgtaacag | ttgaacaact | tccagatgta | gctagctgca | 120 |
| ccccctgtaa | agatgcaggc | tctttacaat | gaagacacat | cttctgatgt | tccttctctc | 180 |
| ctgtatggcc | agatgcacag | gaatagtgcc | caaaagacct | cagcctgctt | tccctttaag | 240 |
| gggaaggaga | agaaaaaact | cttttttatt | tttactttct | ttcagcattg | aatttttgtt | 300 |
| gtgtgtatgg | tgacttctgt | ttttgggaaa | cggaagaag | ccagcagcat | gctgaattgt | 360 |
| cctgacaggg | tccgctgggc | tcttgccgag | gttagcagtg | ctttttttgt | atttaaacca | 420 |
| tctcccgggc | agtgtaaaaa | gtttgcaggt | gcggacattc | tgtctgactg | gtctcggcag | 480 |
| tgctctataa | ccctgttggt | tttcttgata | aaacacagcc | ccacccttta | ataaagcaaa | 540 |
| gattgctatg | aaaccagaga | gtctattcat | tactgtggag | taactagagc | agtctgtagt | 600 |
| gactagacat | acggcaatta | ggaagtcag | gagttgggat | ttttgtctta | attttggctg | 660 |
| ctcaaagtgc | ccccgttagg | atattctttt | ttcgggaatt | gtttccaaac | ttgcctgtct | 720 |
| ttatctatgg | tgaaactcaa | gccgcttttt | aaggcaagcc | tgcaaaccca | agtatcaaca | 780 |
| tgggtccttg | aaggcacagg | gagcagattc | acagttctga | ccagtgttag | ggtccccacg | 840 |
| agggccaccc | atttgaactc | aagggtggca | gactctggcc | ccagcacttg | ccgtgggttc | 900 |
| aggatggcca | gcggtgacac | agggctatgg | aacctgggt | cttcatctct | tcccatatcc | 960 |
| tttgtttcac | cttctttttg | ccatatttta | ttgtgcttca | gatagaaatt | ttatttataa | 1020 |
| gataaaaagt | agctctgagg | ctgggcacgg | tggtctatgc | ctgtggtccc | agcactttgg | 1080 |
| gaggccgagg | tgggtgggtc | acgagctcag | cagatcaaga | ccatcctggc | caatatggtg | 1140 |
| aaaccctgtc | tctgctaaaa | atacaaaaat | tggctggggc | tgggtggcgg | tgctctgtag | 1200 |
| cccagctact | cgaggaggctg | aggcgggaga | atcgattgga | cccaggaggc | ggaggttgca | 1260 |
| gtgagcctag | atggcaccac | tgcgtccag | cctgggtgac | agagggagac | tgcttcaaaa | 1320 |

aaaaaaaaa aaaaaaaaaa

1340

<210> 854

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (338)..(338)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (384)..(384)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (389)..(389)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (799)..(799)

<223> n equals a,t,g, or c

<400> 854

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-----|
| ctgcaggaat | tccggcacgag | aaagaaaggc | gagagaaaaa | tcaaggcacc | aaatttagat | 60 |
| tggaggtctc | agaggagcag | tgttttccct | ccttcgtaac | agttgaacaa | cttcagatg | 120 |
| tagctagctg | caccccctgt | aaagatgcag | gctctttaca | atgaagacac | atcttctgat | 180 |
| gttccttctc | tcctgtatgg | ccagatgcac | aggaatagtg | cccaaaagac | ctcagcctgc | 240 |
| tttcccttta | agggggaagg | agaagaaaaa | actccttttt | atttttactt | tctttcagca | 300 |
| ttgaattttt | gttgtgtgta | tggtgacttc | tggttttngg | gaaacggaag | aagccagcag | 360 |
| catgctgaat | tgctctgaca | ggcntccgnt | ggctcttgcc | gaggttagca | gtgctttttt | 420 |
| tgwattttaa | ccatctccc | ggcagtgtaa | aaagtttgca | ggtgcggaca | ttctgtctga | 480 |
| ctggtctcgg | cagtgtctta | taaccctgtt | gtgtttcttg | ataaaacaca | gccccaccct | 540 |
| ttaataaagc | aaagattgct | atgaaaccag | agagtctatt | cattactgtg | gagtaactag | 600 |
| agcagtcctg | agtgactaga | catacggcaa | ttaggaagtc | atggagttgg | gattttttgtc | 660 |
| ttaatttttg | ctgctcaaag | tgccccctgt | aggatattct | tttttcggga | attgtttcca | 720 |
| aacttgctcg | tctttatcta | tggtgaaact | caagccgctt | tttaaggcaa | gcctgcaaac | 780 |
| ccaagtatca | acatggggnc | ctgaaggggac | agg | | | 813 |

<210> 855

<211> 1237

<212> DNA

<213> Homo sapiens

<400> 855

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| agcaaacc | ggaaggtgtg | gcgtccccgc | ttcgcgcaa | gatggtgctg | gtgctgcgcc | 60 |
| atcctttgtg | tgcccgggaa | agggcggttc | gggagccggg | tcgggggctc | ctgactcgca | 120 |
| ctgggcagca | tgacgggtgcg | ccggctgtca | ctgctgtgcc | gggacctctg | ggcgtgtgg | 180 |
| ctgctgctga | aggccggcgc | agtgctgtgg | gcgcgggccc | gtcctcgccct | ccccggaagg | 240 |
| tggttggggg | cgacatgcgg | ggacgccggg | cggggggtgga | cgttctgggc | ccagccctgt | 300 |
| cctcagaagc | tgctgggggca | gaagcccggg | gctgggggat | gccggggatg | ggtgttgggg | 360 |
| tgggtgcctc | cgagaccaga | ggagccctgt | tccttggcag | ggaaggtgtg | cacgggcctt | 420 |
| gcccgatgga | tggtttaggg | ccatggccct | ggggtccctg | gtgagcagtg | gggccgcctc | 480 |
| tgcccttggc | ctgtgagggg | ctgtctgtgc | tggtcccaga | aggctgggat | cacctttcca | 540 |
| ctggctcctt | tgttcgaggt | ttttcataga | caggctatgt | ggacaaatga | gggcagcgcc | 600 |
| cacgtctggc | tgggtgaggg | gctgcggctc | ctccttggag | gggacgcctg | gccactgctg | 660 |
| tccccacaat | ggggccaccc | gtggtgcaag | gcgtgacaag | ctgccctctc | taggtaaagca | 720 |

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
| ggacttggga | ggccccctggc | caagcctgtg | gacccggctg | ggcggcctct | gtggtctcag | 780 |
| gtttgggtgt | gtttgggtctg | gtcagggtctc | aggggtctgct | ggtccacact | ggccccatcc | 840 |
| tgacaattgg | agctttgggg | caagggtccct | ggagaagggg | tcacgtcggg | aggaaacagc | 900 |
| ctgggttttg | ttgatgcttt | tctaagaatg | gagtactcgt | tttcaagaga | tttgccttaa | 960 |
| ttatatatttc | cagcgggtac | ttatgccaaag | tattgatgaa | taattcataa | aataagcatc | 1020 |
| tttgtgaatt | ttagtgaatc | agaccttaac | tatcaacggc | aatgaatgaa | catctaaagt | 1080 |
| ttccaatttt | aaagtaaaga | actggctggg | tacagcagtt | cacgcctgta | atcccagcac | 1140 |
| tttgggaggc | caaggctaga | ggatcgcttg | agcccaggag | tttgagatca | gcctgggcaa | 1200 |
| cataccaaga | cctcatctgt | taaaaaaaaa | aaaaaaa | | | 1237 |

<210> 856

<211> 1681

<212> DNA

<213> Homo sapiens

<400> 856

| | | | | | | |
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| tttttagagta | cgttctgcat | tttatttytg | caggcaacac | tttgctcacc | agcaagaaca | 120 |
| cagcccragg | aagggaccca | ataacctttc | aaaacscaaa | ctgctkcctg | cggtgagggc | 180 |
| ccagggctcct | ccacggagag | gacaggcatc | ttcctttccc | accaggaagg | agtcagcccg | 240 |
| gagcctctgc | tatgtgcaag | gcgggtgtgca | agcaccggct | gcggctcttt | gtgtgtcttt | 300 |
| ctttctcttt | ggggctgggc | tggggtgtgcg | ttctggtgct | gatgctttgg | cctgtgaggc | 360 |
| tgagcttggc | ayctcgaccc | gttcaattac | agcaacgaag | aagccactgc | tragygtggt | 420 |
| ctcaggggar | gccccgaggc | agtgtctggc | acccgggaac | gtgctcaggc | ctcgggtggg | 480 |
| ccaggcaggc | agggcgagg | ctagcctgaa | ggcgcccg | ttctgctgca | gcgcatctcg | 540 |
| caccacgtct | tcattctcct | cctggcagag | ggagcacgtg | gagtagacga | gccgctgcag | 600 |
| ggaagggaaa | gtgagcgct | ggcacagggc | tcgctgctgg | aacctgcca | gggcatgcag | 660 |
| acgcaccggg | ctaggtgtsc | ctgccccggg | mtcctccagc | tgtctgctcg | gcataaccga | 720 |
| gccactgcag | gaaggatcca | gcaggayrta | gtggacctca | ygrtagcgyg | gatcyraggg | 780 |
| ggagaccgcc | aggaagtctt | cctcagccag | ytacagcar | gagacgccag | ccrggccag | 840 |
| cagcgtggcc | atggatgcca | gccgcttggc | atccagggtca | aaggcaaaga | tcttcccttg | 900 |
| gttcttcaga | agagcagcca | agtgtactgt | cttattgcct | ggggcggcac | aggcatcgat | 960 |
| gacatgggag | cctggcgggg | ggtccagcag | catggctggg | agacagctgg | ccctgtcctg | 1020 |
| cagaatgagg | tgtccggccc | ggtacagtgg | gtgttcattg | agatctgtct | gggctcgtaa | 1080 |
| caccagcagc | tccggcatca | aggggtccag | gagaaaatgc | ttccccttga | gggctcgtaa | 1140 |
| gtcatcgagg | ctggaagccc | gaccttgata | ggagaaacct | tgtctcttga | aataatcaac | 1200 |
| tacatcatcg | gagcaggtct | tgagagtgtt | cacacgcaca | aatcgaggca | gctgggaggc | 1260 |
| tggaaccaggc | ctggatccca | cttccaacag | gtcctcatte | cggctcacac | cccgtgaac | 1320 |
| cttgagccga | gccaactcag | ccttgagcct | cgcctgggtg | cggcccaaca | gagccttcca | 1380 |
| tcggccccca | ccccctcgaa | agccctttcc | caacaacaac | tcatacacta | gcaccttggc | 1440 |
| caggtgcggc | cgcagcttct | tctccgcacg | gaggaggccg | gcgctggcga | tcacagcatc | 1500 |
| cagcacggcg | gagtagcgct | gcgtttcgca | caccagcgcg | tacagctgct | tcacgttctg | 1560 |
| gaagttgctg | gagtagacca | accccttgat | agagcctggc | ggctctccac | gccggccaac | 1620 |
| acgcctgcag | ctgcagcata | cagccccatg | ttcgtcgcg | ctttacggct | ttgtggcaaa | 1680 |
| a | | | | | | 1681 |

<210> 857

<211> 1934

<212> DNA

<213> Homo sapiens

<400> 857

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| ccacgcgtcc | ggggcggtcc | tggtcgtgag | aggggagccc | caggggagct | ggggcagcat | 60 |
| gactgggggtg | ataaatggcc | ggaaatttgg | cggtggccaca | ctcaacacca | gcgtgatgca | 120 |
| ggaggcacac | tccggggtca | gcagcatcca | cagcagcatc | cgccatgtcc | cagcaaactg | 180 |
| ggggcctctg | atgcgggtgc | tcgtggtcac | catcgccccc | atctactggg | ccttgccag | 240 |
| agagagtggg | gaagccctga | atggccactc | tctgactggg | ggcaagtccc | ggcaggagtc | 300 |
| acacgtggag | tttgctacag | gggagctgct | cacgatgacc | cagtggcccg | gggtctggat | 360 |
| cccgatggcc | tctgctcct | cgacgtggtg | gtcaatggcg | ttgtcccccg | acagcctggc | 420 |
| tgacgcagat | cttcaagtgc | aggactttga | ggagcactac | gtgcaaacag | ggcctggcca | 480 |
| gctgttcgtg | gggtccacac | agcgttctct | ccagggcggc | ctcccctcgt | tcctacgctg | 540 |

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|------|
| caaccacagc | atccagtaca | acgcggcccc | gggccccccag | ccccagctgg | tgcagcacct | 600 |
| gcgggcctca | gctatcagct | cggcctttga | tccagaggcc | gaggccctgc | gcttccagct | 660 |
| cgctacagcc | ctgcaggcgg | aggagaacga | ggtcggctgc | cccaggggct | ttgagctgga | 720 |
| ctcccaggga | gcgttttgtg | tggatgtgga | cgagtgtgcg | tgggatgctc | acctctgccg | 780 |
| agagggacag | cgctgtgtga | acctgctcgg | gtcctaccgc | tgcctccccg | actgtgggcc | 840 |
| tggcttccgg | gtggctgatg | gggcccggctg | tgaagatgtg | gacgaatgcc | tggaggggtt | 900 |
| ggacgactgt | cactacaacc | agctctgcga | gaacacccca | ggcggtcacc | gctgcagctg | 960 |
| ccccaggggt | taccggatgc | agggccccag | cctgccctgc | ctagatgtca | atgagtgcct | 1020 |
| gcagctgccc | aaggcctgcg | cctaccagtg | ccacaacctc | cagggcagct | accgctgcct | 1080 |
| gtgcccccca | ggccagaccc | tccttcgcga | cggcaaggcc | tgcacctcac | tggagcggaa | 1140 |
| tggacaaaat | gtgaccaccg | tcagccaccg | aggccctcta | ttgccctggc | tgcggccctg | 1200 |
| ggcctcgatc | cccgttacct | cctaccacgc | ctgggtctct | ctccgtccgg | gtcccatggc | 1260 |
| cctgagcagt | gtggcccggt | cctggtgccc | tcctggtttc | atcaggcaga | acggagtctg | 1320 |
| cacagacctt | gacgagtgcc | gcgtgaggaa | cctgtgtcag | cacgcctgcc | gcaacactga | 1380 |
| gggcagctac | cagtgcctgt | gccccgccgg | ctaccgtctg | ctccccagcg | ggaagaactg | 1440 |
| ccaggacatc | aacgagtgcg | aggaggagag | catcgagtgt | ggaccgggcc | agatgtgctt | 1500 |
| caacaccctg | ggcagctacc | agtgtgtgga | cacaccctgt | cctgccacct | accggcaggg | 1560 |
| ccccagccct | gggacgtgct | tcgggcgctg | ctgcgaggac | tgcggcacgg | gcggcccttc | 1620 |
| tacgctgcag | taccggctgc | tgcgcgtgcc | cctgggcgtg | cgcgcccacc | acgacgtggc | 1680 |
| ccgcctcacc | gccttctccg | aggtcggcgt | ccccgccaac | cgcaccgagc | tcagcatgct | 1740 |
| ggagccccgc | ccccgcagcc | ccttcgcgct | gcgtccgctg | cgcgcggggc | ttggcgcggt | 1800 |
| ctacaccctg | cgcgcgctca | ccgcgcgcgg | cctctaccgg | ctcaccgtgc | gtgctgcggc | 1860 |
| accgcgccac | caaagcgtct | tcgtcttgct | catcgccgtg | tccccctacc | cctactaaac | 1920 |
| gggagagggc | attg | | | | | 1934 |

<210> 858

<211> 1958

<212> DNA

<213> Homo sapiens

<400> 858

| | | | | | | |
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| gactgggggt | ataaatggcc | ggaaatttgg | cgtggccaca | ctcaacacca | gcgtgatgca | 120 |
| ggaggcacac | tccggggtca | gcagcatcca | cagcagcatc | cgccatgtcc | cagcaaacgt | 180 |
| ggggcctctg | atgcgggtgc | tcgtgggtcac | catcgcccc | atctactggg | ccctggccag | 240 |
| agagagtggg | gaagccctga | atggccactc | tctgactggg | ggcaagtccc | ggcagatgca | 300 |
| cacgtggagt | ttgctacagg | gagctgctca | cgatgaccca | gtggcccggg | gtctggatcc | 360 |
| cgatggcctc | ctgctcctcg | acgtgggtgt | caatggcggt | gtccccggac | gagcctggct | 420 |
| gacgcagatc | ttcaagtgca | ggactttgaa | gaagcactac | gtgcaaacaa | gggcctggcc | 480 |
| agctgttcgt | gggctccaca | cagcgcttct | tccagggcgg | cctccccctg | ttcctacgct | 540 |
| gcaaccacag | catccagtac | aacgcggccc | ggggccccca | gccccagctg | gtgcagcacc | 600 |
| tgcgggcctc | agctatcagc | tcggcctttg | atccagaggc | cgaggccctg | cgcttccagc | 660 |
| tcgctacagc | cctgcaggcg | gaggagaacg | aggctcggtg | ccccgagggc | ttttagctgg | 720 |
| actcccaggg | agcgttttgt | gtggatgtgg | acgagtgtgc | gtgggatgct | cacctctgcc | 780 |
| gagagggaca | gcgctgtgtg | aacctgctcg | ggtcctaccg | ctgcctcccc | gactgtgggc | 840 |
| ctggcttccg | ggtggctgat | ggggccggct | gtgaaaatgt | ggacgaatgc | ctggaagggg | 900 |
| ttggacgact | gtcactacaa | ccagctctgc | gagaacaccc | caggcggtca | ccgctgcagc | 960 |
| tgccccaggg | gttaccggat | gcagggcccc | agcctgccct | gcctagatgt | caatgagtgc | 1020 |
| ctgcagctgc | ccaaggcctg | cgcctaccag | tgccacaacc | tccagggcag | ctaccgctgc | 1080 |
| ctgtgcccc | caggccagac | cctccttcgc | gacggcaagg | cctgcacctc | actggagcgg | 1140 |
| aatggacaaa | atgtgaccac | cgtcagccac | cgaggccctc | tattgcccctg | gctgcggccc | 1200 |
| tgggcctcga | tccccggtac | ctcctaccac | gectgggtct | ctctccgtcc | gggtcccatg | 1260 |
| gccctgagca | gtgtgggccc | ggcctgggtc | cctcctgggt | tcatacggca | gaacggagtc | 1320 |
| tgcacagacc | ttgacgagtg | ccgcgtgagg | aacctgtgtc | agcacgcctg | ccgcaacact | 1380 |
| gagggcagct | accagtgcct | gtgccccgcc | ggctaccgtc | tgctccccag | cgggaagaac | 1440 |
| tgccaggaca | tcaacgagtg | cgaggaggag | agcatcgagt | gtggaccggg | ccagatgtgc | 1500 |
| ttcaacaccc | gtggcagcta | ccagtgtgtg | gacacacct | gtcctgccac | ctaccggcag | 1560 |
| ggccccagcg | ctgggacgtg | cctccggcgc | tgctcgcagg | actgcggcac | gggcggccct | 1620 |
| tctacgctgc | agtaccggct | gctgccgctg | cccctgggcg | tgcgcgcccc | ccacgacgtg | 1680 |
| gccccctca | ccgccttctc | cgaggtcggc | gtccccgcc | accgcaccga | gctcagcatg | 1740 |
| ctggagcccc | acccccgcag | ccccttcgcg | ctgcgtccgc | tgcgcgcggg | ccttggcgcg | 1800 |

gtctacaccc gtcgcgcgct caccgcgcgc ggctctctacc ggctcaccgt gcgtgctgcg 1860
gcaccgcgc accaaagcgt cttcgtcttg ctcacgcgcg tgtecccccta cccctactaa 1920
acgggagagg gcattggcgg ccgctctaga ggatccct 1958

<210> 859
<211> 1070
<212> DNA
<213> Homo sapiens

<400> 859
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tgaagtggac tatttcatcc cctgtttcta tcatgacagt gccttctctc atattgaccc 180
tcttgcccta taagattcct tgtgattaca ctgggtccac ctgcataatc aaggctaatac 240
tctccatctg gagatcttaa tataatcaca tctacaaagt ccctttggcc attgaagtaa 300
catatttata tgtattcatt attaggatgt gggacacttt tgcagggac agggattttt 360
cagcctacct ttttcttcac cttttgccac cactctcagc ctgtggtctc aatgccagcc 420
tttacctgc taccgccatt gtctgggtag ktcataccag ycctcaagac tagcctcagg 480
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catctcttgc taaacacagt acctaaaatt tagtaggcata tccctcataa acatgaatga 720
atgaatcaaa gaataaataa acatttagga aatgatgttg tgttggtcaa cttctttcct 780
catcactggt aaagataaaa gaatgccaaag ccagggtgtt cagacagaag caagcaccac 840
atccctgaga gagcagcaca tctgggcagc catgtgtgag aagtcggttg cattccccat 900
acacagttgt ctttgagcgt gtactcttaa ccactgtaac cacagaagtg gggaaacaat 960
aggggtgggt gaagtgaataa gaaaattttc caaaacttca tttatctaataaatacagat 1020
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<210> 860
<211> 646
<212> DNA
<213> Homo sapiens

<220>
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<222> (19)..(19)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (544)..(544)
<223> n equals a,t,g, or c

<400> 860
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tccagcctcc ccccatccc cagtyttccc caccctggcc cggccctcca ggtgcagaaa 120
catgcaggcc cctctccagg actgtgggag gagtgtgtcc ctcagactgg cctgtgtcct 180
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ggccagarag gactcctgaa ctctgtgtg cctgggggtg cagggggcaa catagccaac 300
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agaaaaaaat aatttgaatc acacatcaca ccaaaaataa attctaggtg gattttaaca 480
ctttccaaaa attattatta gtttagagac aggggtctcac tccgtcgctt aggtggagt 540
gcanggggtat gatcatgggt cactgcaacc ttaaaactccc tggcctcata tgatcccccc 600
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<210> 861
<211> 1590
<212> DNA
<213> Homo sapiens

<400> 861

| | | | | | | |
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| ccagaagttt | gagcctcttt | ggtagcagga | ggctggaaga | aaggacagaa | gtagctcttg | 120 |
| ctgtgatggg | gatcttactg | ggcctgctac | tcttggggca | cctaacagtg | gacacttatg | 180 |
| gccgtcccat | cctggaagtg | ccagagagtg | taacaggacc | ttggaaggag | gatgtgaatc | 240 |
| ttccctgcac | ctatgacccc | ctgcaaggct | acacccaagt | cttgggtgaag | tggctggtac | 300 |
| aacgtggctc | agaccctgtc | accatctttc | tacgtgactc | ttctggagac | catatccagc | 360 |
| aggcaagta | ccagggccgc | ctgcatgtga | gccacaaggt | tccaggagat | gtatccctcc | 420 |
| aattgagcac | cctggagatg | gatgaccgga | gccactacac | gtgtgaagtc | acctggcaga | 480 |
| ctcctgatgg | caaccaagtc | gtgagagata | agattactga | gctccgtgtc | cagaaacact | 540 |
| cctcaaagct | actcaagacc | aagactgagg | cacctacaac | catgacatac | cccttgaaag | 600 |
| caacatctac | agtgaagcag | tcctgggact | ggaccactga | catggatggc | taccttggag | 660 |
| agaccagtgc | tggggccagga | aagagcctgc | ctgtctttgc | catcatcctc | atcatctcct | 720 |
| tgtgctgtat | ggtggttttt | accatggcct | atatcatgct | ctgtcggaag | acatcccaac | 780 |
| aagagcatgt | ctacgaagca | gccagggcac | atgccagaga | ggccaacgac | tctggagaaa | 840 |
| ccatgagggt | ggccatcttc | gcaagtggct | gctccagtga | tgagccaact | tcccagaatc | 900 |
| tgggcaacaa | ctactctgat | gagccctgca | taggacagga | gtaccagatc | atcgcccaga | 960 |
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| ctgagggcaa | aagtgtctgt | taaaaatgcc | ccattaggcc | aggatctgct | gacataattg | 1080 |
| cctagtcagt | ccttgccttc | tgcattggcct | tcttccctgc | tacctctctt | cctggatagc | 1140 |
| ccaaagtgtc | cgcctaccaa | cactggagcc | gctgggagtc | actggctttg | ccctggaatt | 1200 |
| tgccagatgc | atctcaagta | agccagctgc | tggatttggc | tctgggacct | tctagtatct | 1260 |
| ctgccggggg | cttctggtac | tcctctctaa | ataccagagg | gaagatgccc | atagcactag | 1320 |
| gacttgggtc | tcattgcctac | agacactatt | caactttggc | atcttgccac | cagaagacct | 1380 |
| gagggaggct | cagctctgcc | agctcagagg | accagctata | tccaggatca | tttctcttct | 1440 |
| ttcagggcca | gacagctttt | aattgaaatt | gttatctcac | aggccagggt | tcagtctctg | 1500 |
| tcctccacta | taagtcta | gttctgactc | tctcctggtg | ctcaataaat | atctaatacat | 1560 |
| aacagcaaaa | aaaaaaaaaa | aaaactcgag | | | | 1590 |

<210> 862

<211> 1540

<212> DNA

<213> Homo sapiens

<400> 862

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| tcctcatgta | cagagcaatt | gacagctttc | cccgttggcg | ttcctacttc | tatttcatca | 120 |
| ctctcatttt | cttcctcgcc | tggcttgtga | agaacgtggt | tattgctggt | atcattgaaa | 180 |
| catttgcaga | aatcagagta | cagtttcaac | aaatgtgggg | atcgagaagc | agcactacct | 240 |
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| tgggatgtca | acaagcccca | gggacgcgcc | ccagcctgcc | tccaggtgca | gtacaatgac | 360 |
| atttttaaaa | atcgcccagc | aaaggctctt | gaattttatt | tcatccaaga | aaatccacag | 420 |
| ctctttaagc | tctagatttg | tccaaattta | aaatcctgaa | gttagagatg | gtatttcaact | 480 |
| ccttcctcta | ttcccaggac | ctagcttttt | ttttttaaca | tacacaatag | ggatttgata | 540 |
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| ttgttgacat | gtgaaatctt | ataaaaaat | tctttaccga | aggactgagt | tatgtggcag | 660 |
| tgggcaaat | cattgtttca | tacctccctt | agtaactggg | aaaaatatgt | taatacatag | 720 |
| tctctctggt | tttctgcatt | tggaaagctt | cagaggaaca | taatgtagag | gtgtttcttt | 780 |
| agcaaaagtgc | actgatagca | aacataagga | ttgcagggtg | ggcctgagag | tcctcatgag | 840 |
| atagattctc | acagtgatta | gaagatggag | tctcacgtcc | ctgcctgtga | actttctgga | 900 |
| aaaaccatct | tctccaagct | gccattgaca | acaatatgga | taacaataat | aacaataagg | 960 |
| cccaataaac | tcctttatct | cttcttcagg | gggccatact | gacatcttct | cttctctggg | 1020 |
| ttcccctcct | tgccccctaa | atatccagta | actcattcaa | aataatgtca | ccttaccaag | 1080 |
| agcagcacc | ctaactttcc | ataatatttt | cactttcatt | ttccctccaa | gcagcccact | 1140 |
| cgtaggaccg | tagaattgat | tcttccacct | ggagaatttt | attttcttta | gcctttttgg | 1200 |
| ttttcagtga | caaatcctct | tctcgcaagg | ggtggtttcc | atagttgttt | atatcctgcc | 1260 |
| ctcataaatt | ggagaagtgt | tcacatctgc | cgtgggatga | gactgtatct | cttttctttc | 1320 |
| ttttgggtct | ttctccagat | agggacttct | tatgcaactc | aaggatgggt | acatgaaaaa | 1380 |
| taaaattgta | ctctgagcca | ttactgggtg | gctatgttta | tatggccatt | ttaccataga | 1440 |
| gttattttact | tctttttgtt | tctattttga | ttgaggtgtg | attaacaaat | aaaattgtaa | 1500 |

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1540

<210> 863
<211> 2467
<212> DNA
<213> Homo sapiens

<400> 863

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<210> 864
<211> 2541
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (388)..(388)
<223> n equals a,t,g, or c

<400> 864

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| agaaggtcac | taccatcatg | gagatggctt | ccaagatgaa | agacacaggg | ttcatcgtgt | 120 |
| ttgctgtgct | tctgctgggtg | tcatgcctca | tctctatctt | tgctattgcc | ccacgttacg | 180 |
| ggcaaaggaa | tatcctcatc | tacatcatca | tctgctctgt | gatcggggcc | ttctctgtgg | 240 |
| ctgctgtcaa | ggggctgggc | atcacatca | agaacttctt | ccaggggctg | ccagttgtcc | 300 |
| ggcaccgcgt | ccctacatc | ctgtccctca | tcttggcact | gtccctcagc | actcaggtca | 360 |
| acttcctcaa | cagagcactg | gacatttnca | acacttccct | gggtgtcccc | atctactacg | 420 |
| tggtcttcac | cacgggtggc | gttacctcgt | ccatcatcct | cttcaaggag | tggtacagca | 480 |
| tgtctgtgtg | ggacattgca | ggcaccctct | cgggctttgt | caccatcatc | ttgggcgtgt | 540 |
| tcatgctgca | tgctttcaaa | gacctggaca | tcagctgcgc | cagcttgccc | cacatgcaca | 600 |
| aaaaccacc | cccttctccc | gccccggaac | ccactgtcat | tagactggaa | gacaagaacg | 660 |
| tccttgwgga | caatatagaa | cttgccagca | cctcatcacc | agaagagaaa | cccaaagtat | 720 |
| ttataatcca | ttcttgaagc | ttggaatatg | tgagttagag | gatgagtccg | atggtacagc | 780 |
| ctgcccctccc | aatttcaaaa | ccacctgggt | attttccagt | gcaactgtta | ccaatgggct | 840 |
| ctcttttctt | gagaagtcca | tttatacctc | atcactgttt | ccaggagaaa | aatctttacc | 900 |
| caaatagcaa | tggtggcaga | acttctctga | aacagattca | gtgaccaa | acccaagttt | 960 |
| acatcagtcg | ctgcagggttc | cctggacctt | ccttctcatt | cattctttcg | gtgccatctc | 1020 |
| tatgccgttg | ggaagaagat | ggagtctgac | ccactgaatg | tagcacagtc | caaggacttc | 1080 |
| tctaagatat | tggtcattgg | aagttccttc | acaccaatc | tcctcctgag | acggaatctc | 1140 |
| cgttggtgtt | gtgtgtgttg | ttttctagcc | caaggatgac | atagagctgg | ctcccagagg | 1200 |
| cccacagagc | aattggccat | gcctccctat | ccagagctga | cagggacaca | accagtgtaa | 1260 |
| aatatcctgt | tgctttgttc | acttctctct | tggaggcaga | agcaagacct | cagctgacct | 1320 |
| tcttactgtg | aaagccactt | gatgtctcag | ggaaaaattt | caaccagctc | attccccgag | 1380 |
| cactccagcc | tgccagtcag | cacctcggca | tcacccagc | ccatcccacc | atcacccctt | 1440 |
| ccccctctac | ttacatccta | aggagtcggt | cactgagaca | taaaggcagt | aatcgcagaa | 1500 |
| ctggaaacaa | aacaataaca | gagccacagc | caaactctgg | tggccaaacc | cagtgttgca | 1560 |
| ttttgtctta | ctctgaaaga | agaacagcaa | attcactgct | tcaaagtggc | ctggctgcca | 1620 |
| agctagaatt | tgccagaacg | cacttttcta | ttcctcaagg | agtcaaccaa | cctatgatct | 1680 |
| ggggagggtg | gaagaggatg | aggagcaaa | ttgggatttg | gcagaaggca | gtcccaggct | 1740 |
| ctctggatac | taggggctaa | cttttggtt | gactctgggt | ctcatctggg | aacttaggag | 1800 |
| aaacgagctc | aggggttaatt | tctgggttgc | agccttaaa | gcttgagacg | ctgtgaatct | 1860 |
| caatggccaa | ctggaggtgc | agacttggca | tggggtgcat | tctagctgtt | gaccagattg | 1920 |
| ctaccgagtc | ccytctctca | ctgatgagct | gccacacact | ggaagcagca | tgccctgact | 1980 |
| gttccaacac | cacctgctat | ggggagtacc | tttgggtccc | tcacatttgg | ccagaggata | 2040 |
| caaaaaacca | gagcagctgg | agagggagat | aattactatt | ccttcccttc | ccatctcctt | 2100 |
| tctagccaca | agagtgtggg | ggttgagaaa | gaaccattag | aaagggaaat | tagtgggctg | 2160 |
| gtgtatcttg | aaagagggaa | gacttgatcc | tcagccccga | ggttggtgca | gggcctcccc | 2220 |
| tgtgtgactc | tacctgcact | ctgtgtttat | atcctgtgcc | ctaagtgggc | caagcccagg | 2280 |
| taaattcctg | ctggccttgg | aactccaagg | tttggctgac | cagcagactg | gctccctgac | 2340 |
| tcttcagcct | caaatcccca | gtttttgatg | aatgtggatt | tctgtctgta | attaaaagca | 2400 |
| atgcaacaag | ttggctcttg | agaatggcag | taaactgagg | gccctaagag | tgtgggtctgc | 2460 |
| agggtcaaga | ataaagatta | cagattatat | ttacttgaaa | aaaaaaaaaa | aaaaaatctc | 2520 |
| ctgcggccgc | aagggaattc | a | | | | 2541 |

<210> 865

<211> 819

<212> DNA

<213> Homo sapiens

<400> 865

| | | | | | | |
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| gcaactgctg | cctttgttgc | ttatactgcc | cggctggact | ggaagcttgc | tgcagaggag | 120 |
| gctaagaaac | attcaggccg | gcagcagcag | cagagagcag | agagcactgc | aaccagacct | 180 |
| gggcctgaga | aagcagtcct | atcttcagtg | gctacaggca | gttccccttg | cattaccttg | 240 |
| acaacgtatt | caaggctctga | gtgccacgtg | gacttcttca | ggactccaga | ggaggcccac | 300 |
| gccctttcag | ctcctaccag | cagactatca | gtgaaacagc | tggtcatccg | ccgtggggct | 360 |
| gctctggggg | cggcgtcagc | acactgatgg | tggggctcac | ggtcaggatc | ctagccacca | 420 |
| ggcactagca | aagaagcttg | gaaatagaaa | gccaggagtg | gctgtcccca | gtatgcaaac | 480 |
| acaccacggt | ctgccctgca | aaaacaccaa | tggggtctag | tgcagggtga | cactttgaac | 540 |
| cactcctcaa | aaaaagaact | ttggctgatg | ccttgtgggt | acactcagag | gggtctgaac | 600 |

| | |
|---|-----|
| agacttgaca attctgttct ggtaagctg gagttttctt ctgtgacttg gactgctcta | 660 |
| cagaagacat cagccaactg cagcagtcag agtccaggga ttgtcactat tattaataat | 720 |
| gtaaatggct tcaaatggga cactgcagat aammycacia aaaccactgt tatattaaag | 780 |
| attacacatt tcctggaaaa aaaaaaaaaa aaaactcga | 819 |

<210> 866

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1422)..(1422)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1434)..(1434)

<223> n equals a,t,g, or c

<400> 866

| | |
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| tctgagcggc ttcctggggg cctccccacg tcccaaaggc cggcaagatg gtgtcctgga | 120 |
| tgatctgtcg ctcgtgtggt ctggtgtttg ggatgctgtg tccagcttat gcttcctata | 180 |
| aggctgtgaa gaccaagaac attcgtgaat atgtgcgggt gatgatgtac tggattgttt | 240 |
| ttgactctt catggcagca gagatcgta cagacatttt tatctcctgg ttccctttct | 300 |
| actatgagat caagatggcc ttcgtgctgt ggctgctctc accctacacc aaggcgccca | 360 |
| gctgctttac cgcaagtttg tccaccgctc cctgtcccg ccatgagaagg agatcgacgc | 420 |
| gtacatcgtg caggccaagg agcgcagcta cgagaccgtg ctgagcttcg ggaagcgggg | 480 |
| cctcaacatt gccgcctccg ctgctgtgca ggctgccacc aakagtcagg gggcgctggc | 540 |
| cggcaggctg cggagcttct ccatgcagga cctgcgctcc atctctgacg cacctgcccc | 600 |
| tgctaccat gacccctct acctggagga ccagggtgtc caccggaggc caccattgg | 660 |
| gtaccggggc gggggcctgc aggacagca caccgaggat gagtgttggc cagatactga | 720 |
| ggcagtcgcc cgggcgcag cccggcccc agagaarccc ctaatccga gccagagcct | 780 |
| gcgtgtgtgc aagargaagc caccggtgcg ggarggcacc tcgcgctccc tgaaggttcg | 840 |
| gacgargaaa aagactgtgc cctcagacgt ggacagctag ggtctgtgc atctgcccc | 900 |
| ttcttacctc gtgccctgca kggctccagg gctatttggg gggaccttg gctgcacatc | 960 |
| tgccctgcct gcaccagctg cctgggcycc accctcctga ctctgtctga tggtaagggg | 1020 |
| ccgggagcag atgctgcaa ggccacatgc agggatgcac ccacaatga ccaagcagg | 1080 |
| ctgggcccag ggttctattt attgccttgc tctgcccctt cccttcccc gttgtgggac | 1140 |
| aagagccctc cctgaacccc tgcaaccctc cctgaacccc tgcaaatgaa accaaacgtc | 1200 |
| cacctgggtg tgttcattcc ttcctgtcct tcaaagtact tgatagcctt tcataaggcc | 1260 |
| tggcacatgt gtcctgggtg tgtgtgtgtg tgttgggtgag tgaggctcagg tttgcgagtg | 1320 |
| ttttgataaa taaatacata aaggggcaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaa | 1380 |
| aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa | 1440 |
| aaaaaggg | 1448 |

<210> 867

<211> 1450

<212> DNA

<213> Homo sapiens

<400> 867

| | |
|--|-----|
| gggcacgagt caagattgtg aggtccaaga gaacagatca gggctcttaag aagattatct | 60 |
| ttcatagtgc ctatttgatg gtaatgatca taaatacagt ataatagaag gaaaaatct | 120 |
| tggtggctta tatgcattgg tagtttctca tggtataaag ctttttttt tctcttctt | 180 |
| ttagcacaag tgcatacacc ttgatagcac caaatataaa ccggagaaat gagatacaaa | 240 |
| gaattgcgga caggagctgg ccaacctgga gaagtggag gagcagaaca gagctaaacc | 300 |
| ggttcacctg gtgcccagac ggctagggtg aagccagtca gaaactgaag tcagacagaa | 360 |
| acaacaactc cagctgatgc aatctaaata caagcaaaag ctaaaaagag aagaatctgt | 420 |
| aagaatcaag aaggaagctg aagaagctga actccaaaaa atgaaggcaa ttcagagaga | 480 |

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|------|
| gaagagcaat | aaactggagg | agaaaaaaag | acttcaagaa | aaccttagaa | gagaagcatt | 540 |
| tagagagcat | cagcaataca | aaaccgctga | gttcttgagc | aaactgaaca | cagaatcgcc | 600 |
| agacagaagt | gcctgtcaaa | gtgctgtttg | tggcccacaa | tcctcaacat | gggccagaag | 660 |
| ctgggcttac | agagattctc | taaaggcaga | agaaaaacaga | aaattgcaaa | agatgaagga | 720 |
| tgaacaacat | caaaagagt | aattactgga | actgaaacgg | cagcagcaag | agcaagaaaag | 780 |
| agccaaaatc | caccagactg | aacacaggag | ggtaaataat | gcttttctgg | accgactcca | 840 |
| aggcaaaagt | caaccagggtg | gcctcgagca | atctggaggc | tggttgaata | tgaatagcgg | 900 |
| taacagctgg | ggtatatgag | aaaatattga | ctcctatctg | gccttcatca | actgacctcg | 960 |
| aaaagcctca | tgagatgctt | tttcttaatg | tgattttgtt | cagcctcact | gtttttacct | 1020 |
| taatttcaac | tgcccacaca | cttgaccgtg | cagtcaggag | tgactggctt | ctccttgctc | 1080 |
| tcatttatgc | atgtttggag | gagctgattc | ctgaactcat | atttaaactc | tactgccagg | 1140 |
| gaaatgctac | attatttttc | taattggaag | tataattaga | gtgatgttgg | tagggtagaa | 1200 |
| aaagagggag | tcacttgatg | ctttcaggtt | aatcagagct | atgggtgcta | caggcttgct | 1260 |
| tttctaagt | acatattctt | atctaattct | cagatcaggt | tttgaagct | ttgggggtct | 1320 |
| tttttagattt | taatccctac | tttctttatg | gtacaaatat | gtacaaaaga | aaaagggtctt | 1380 |
| atattctttt | acacaaattt | ataaataaat | tttgaactcc | ttctgtataa | aaaaaaaaaa | 1440 |
| aaaaaaaaaa | | | | | | 1450 |

<210> 868

<211> 1868

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1133)..(1133)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1136)..(1136)

<223> n equals a,t,g, or c

<400> 868

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| ttgaattatg | gtacattctc | tgggtgaatat | tgcatatcaa | ggaaaatgtg | aaaaatgtaa | 120 |
| atacagccgt | gtaaatgaag | aggaaaatgt | aaagctaaac | gggaaatagc | gtatctatat | 180 |
| tttaggtaac | atttaaataga | tgataatagc | taattatttt | atgaacccct | tactatgtgc | 240 |
| agggtacttg | ttctgttttg | cctacacatt | aattcattta | atcctcctaa | caacctctga | 300 |
| ggtatgtagt | attactgccc | cattttttcac | agctgtgctg | cagtcgagtg | cctgtccaag | 360 |
| tacacactgg | cctgagtagg | cccaggaggc | tgggtgatgt | ggctccgcag | cctccactcc | 420 |
| tgtccactgt | gcacactgcc | tctgttatat | taattcatca | aatattgagg | gtccctttga | 480 |
| tgccacgcac | tatccaccac | tggcaccctg | acacttagac | cctaacagat | atggctgttg | 540 |
| ctcgtgagga | tctttattta | ttaggaggtg | atagaaagta | aaatcagata | atgcatgccca | 600 |
| cgtggatcat | taaaacagac | tgagtgtcaa | agagtgactc | cgtggttctg | tgcttgkttg | 660 |
| gtcagaaaagg | tgtttctgag | atgaagctga | gcagagctgt | ccaaagaaca | ggaaagaacc | 720 |
| agctaggctg | tgattggggg | atagtgggtt | caggcagaaa | gaacagctac | tgggtttcct | 780 |
| agggtgtttg | gagcacagcc | ggtgaggggc | acatagctgg | gccagggcat | gtagagcttg | 840 |
| ttcagcctct | ggaaggcatt | gggattttat | gctaagtat | ttggaaagcc | tttggagggga | 900 |
| gaatggattg | tgtgtggctc | tggctggcag | cagccagtta | ggctttcaca | gtagacaagg | 960 |
| ggagatgatt | gtggcttggg | tgacagtgt | ttataattac | sgagaaaggk | ttggatatga | 1020 |
| ttcagagata | gggctgacag | agcttgctgt | tggattagat | gtaggaaatt | agcaaaggaa | 1080 |
| agggaatggga | garacagagaw | tgggattcaa | ctggagccat | agtagccatg | tgntgnttat | 1140 |
| cagacatcca | aggggaggtg | ccaaattgct | agttggctac | agggatctgg | cattctgtga | 1200 |
| gaggccaagg | cttgggtata | taggttatgt | gtggataact | gcactctyccw | tgcttassag | 1260 |
| gccagataaa | acagtgcaag | aaaatattaa | caataaggat | tatggacawt | ttgagtttcc | 1320 |
| ttctactttc | ctttgtgaaa | atgtgttgct | ttaaaaatca | aaccaatgat | tcctttttcc | 1380 |
| aagtctgata | atattttgaag | aattttttaga | gaaactaagt | tacaaagtta | tagtacttat | 1440 |
| ataatcagaa | ttggcatggt | gtagagatgt | caaagtgggt | gttttgcttt | ttataacttt | 1500 |
| gtatcaggg | tatattttta | caaagagata | agaatattag | agacaggagt | ggtggctcac | 1560 |
| acgtgtaatc | ccagcacttt | gggatgccga | ggtgggtgga | tcaccagagg | tcaagagttc | 1620 |

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gataccagcc tggccaacat ggtgaaaccc tgtctctact ataaatacca aaattagcca 1680
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tgaacctggg agctggaggt tgcagtgcgc caagattgtg ccactgccgt ccagtctggg 1800
caacagagtg agactctgtc tcaaaataat aataataata gagtctagtc ttcatttttg 1860
ccccccc 1868

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<210> 869

<211> 1507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1047)..(1047)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1301)..(1301)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1507)..(1507)

<223> n equals a,t,g, or c

<400> 869

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ccccagacgc aggcctcat ggccagggga ggggtgcacca ggcgcccccc ctgagcgacg 180
ctccccatga tgacgcccac gggaacttcc agtacgacca tgaggctttc ctgggacggg 240
aagtggccaa ggaattcgac caactcacc cagaggaaag ccaggcccgt ctggggcgga 300
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cctggcccca gccctctcct gcctggcctg gcctgggaca cctcctctct gccaggaggg 1440
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aaaaaaan 1507

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<210> 870

<211> 586

<212> DNA

<213> Homo sapiens

<400> 870

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agagcggagc aagctggata acaggggacc gatgatgtgg cgaccatcag ttctgctgct 60

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| | | | | | | |
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| tctgttgcta | ctgaggcacg | gggcccaggg | gaagccatcc | ccagacgcag | gccctcatgg | 120 |
| ccaggggagg | gtgcaccagg | cggccccctt | gagcgacgct | ccccatgatg | acgcccacgg | 180 |
| gaacttccag | tacgaccatg | aggctttcct | gggacgggaa | gtggccaagg | aattcgacca | 240 |
| actcacccca | gaggaaagcc | aggcccgtct | ggggcggtatc | gtggaccgca | tggaccgcgc | 300 |
| gggggacggc | gacggctggg | tgtcgctggc | cgagcttcgc | gcgtggatcg | cgcacacgca | 360 |
| gcagcggcac | atacgggact | cggtgagcgc | ggcctgggac | acgtacgaca | cggaccgcga | 420 |
| cgggcgtgtg | ggttgggagg | agctgcgcaa | cgycacctat | ggccactasg | sgcccgttga | 480 |
| agaatttcat | gacgtggagg | atgcagagac | ytacaaaaag | atgctggytc | gggacgagcg | 540 |
| gcgtttccgg | gtggccgacc | aggatgggga | ctcgatggcc | actcga | | 586 |

<210> 871

<211> 1250

<212> DNA

<213> Homo sapiens

<400> 871

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| gcccacgcgt | ccgcccacgc | gtccggcggt | gcggagtatg | gggcgtgat | ggccatggag | 60 |
| ggctactggc | gcttctctggc | gcygctggg | tcggcactgc | tcgtcggtt | cctgtcggg | 120 |
| atsttcgccc | tcgtctgggt | cctccactac | cgagaggggc | ttggctggga | tgggagcgca | 180 |
| ctagagttta | actggcacc | agtgttsatg | gtcaccggct | tcgtcttcat | ccagggcac | 240 |
| gcacatcgt | ctacagactg | ccgtggacct | ggaaatgcag | caagctcctg | atgaaatcca | 300 |
| tcctatgcagg | gttaaatgca | gttgctgcca | ttcttgcaat | tatctctgtg | gtggccgtgt | 360 |
| ttgagaacca | caatgttaac | aatatagcca | atatgtacag | tctgcacagc | tgggttgagc | 420 |
| tgatagctgt | catatgctat | ttgttacagc | ttctttcagg | tttttcagtc | tttctgcttc | 480 |
| catgggctcc | gctttctctc | cgagcatttc | tcattgccc | acatgtttat | tctggaattg | 540 |
| tcactcttgg | aacagtgtat | gcaacagcac | ttatgggatt | gacagagaaa | ctgatttttt | 600 |
| ccctgagaga | tcctgcatac | agtacattcc | cgccagaagg | tgttttcgta | aatacgcttg | 660 |
| gccttctgat | cctggtgttc | ggggccctca | ttttttggat | agtcaccaga | ccgcaatgga | 720 |
| aacgtcctaa | ggagccaaat | tctaccattc | ttcatccaaa | tggaggcact | gaacagggag | 780 |
| caagagggttc | catgccagcc | tactctggca | acaacatgga | caaatcagat | tcagagttaa | 840 |
| acartgaagt | agcagcaagg | aaaagaaaact | tagctctgga | tgaggctggg | cagagatcta | 900 |
| ccatgtataaa | tgttgtagag | atagagccat | ataacgtcac | gtttcaaaac | tagctctaca | 960 |
| gttttgcctc | tcctattagc | catatgataa | ttgggctatg | tagtatcaat | atttacttta | 1020 |
| atcacaaagg | atggtttctt | gaaataattt | gtattgatgt | aggcctatga | actgacctga | 1080 |
| attggaaagg | atgtgattaa | tataaataat | agcagatata | aattgtgggt | atgttacctt | 1140 |
| tatcttgttg | aggaccacaa | cattagcacg | gtgccttgtg | cakaatagat | actcaatatg | 1200 |
| tgaatatgtg | tctactagta | gttaattgga | taaactggca | gcacccctga | | 1250 |

<210> 872

<211> 1792

<212> DNA

<213> Homo sapiens

<400> 872

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|------|
| ggcacgaggt | tggtttgagtt | tggtttggag | caaaactgag | gtagtcctaa | catttctggg | 60 |
| actgaatcca | ggcaagagaa | agaagaaaaa | gaagaagaaa | aagaggagga | aaaagtggat | 120 |
| tacacaatga | catggagaat | gggaccccgt | ttcactatgc | tggtggccat | gtggctagt | 180 |
| tgtggatcag | aaccccaccc | ccatgccact | attagaggca | gccacggagg | acggaaagt | 240 |
| cctttgggtt | ctccggacag | cagtaggcca | gctcggtttc | tgaggcacac | tgggaggtct | 300 |
| cgcggaattg | agagatccac | tctggaggaa | ccaaaccttc | agcctctcca | gagaaggagg | 360 |
| agtgtgcccc | tggtgagact | agctcgccca | acagagccgc | cagcccgtc | ggacatcaat | 420 |
| ggggcccgcc | tgagacctga | gcaaagacca | gcagccagg | gctctccg | tgagatgatc | 480 |
| agagatgagg | ggctctcagc | tcggtcaaga | atgttgcgtt | tccttccggg | gtccagctct | 540 |
| cccaacatcc | ttgccagctt | tgcaagggaag | aacagagtat | gggtcatctc | agccctcat | 600 |
| gcctcggaag | gctactaccg | cctcatgatg | agcctgctga | aggacgatgt | gtactgtgag | 660 |
| ctggcgagga | ggcacatcca | acagattgtg | ctcttccacc | aggcaggaga | ggaaggaggc | 720 |
| aagggtgagaa | ggatcaccag | cgagggccag | atcctggagc | agccctgga | ccctagcctc | 780 |
| atccctaagc | tgatgagctt | cctgaagctg | gagaagggca | agtttggcat | ggtgctgctg | 840 |
| aagaagacgc | tgcaagggtga | ggagcgctat | ccatatcccc | ttaggctgga | agccatgtac | 900 |
| gaggtcatcg | accaaggccc | catccgtagg | atcgagaaga | tcaggcagaa | gggctttgtc | 960 |
| cagaaatgta | aggcctctgg | tgtagagggc | cagggtggtg | cggaggggaa | tgacgggtga | 1020 |

```

gggggagcag gaaggccaag cctgggcagc gagaagaaga aagaggaccc aaggagagca 1080
caagtcccac caaccagaga gagtcgggtg aaggtcctga gaaaactggc cgccactgca 1140
ccagcttttc cccaacctcc ctcaaccccc agagccacca ccttctctcc tgccccagcc 1200
acaacagtga ctcggtccac gtccccggcg gtaacagttg ctgcaagacc tatgaccacc 1260
actgcctttc ccaccacgca gaggccctgg acccctcac cctccacag gccccctaca 1320
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ttggagagct tcacaaatgc ccctcccacc accatctcag aaccagcac aagggtgct 1500
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gacaaaattc ttagtaatga gtatgaggaa gtatgacctc agccggccta ctgctctca 1680
gctggaggac gagctgcagg tggggaatgt tccccttaa aaagcaaagg agtctaaaaa 1740
gcatgaaaag cttgagaaac cagagaagga gaagaaaaaa aaaaaaaaaa aa 1792

```

<210> 873

<211> 1673

<212> DNA

<213> Homo sapiens

<400> 873

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tttctccgga cagcagtagg ccagctcggg ttctgaggca cactgggagg tctcggcgaa 180
ttgagagatc cactctggag gaaccaaacc ttcagcctct ccagagaagg aggagtgtgc 240
ccgtgttgag actagctcgc ccaacagagc cgccagcccg ctcgacatc aatggggccg 300
ccgtgagacc tgagcaaaga ccagcagcca ggggctctcc gcgtgagatg atcagagatg 360
aggggtcctc agctcggta agaattgtgc gtttcccttc ggggtccagc tctcccaaca 420
tccttgccag ctttgaggga aagaacagag tatgggtcat ctacagcccct catgcctcgg 480
aaggctacta ccgcctcatg atgagcctgc tgaaggacga tgtgtactgt gagctggcgg 540
agaggcacat ccaacagatt gtgctcttcc accaggcagg agaggaaagg ggcaaggtag 600
gaaggatcac cagcaggggc cagatcctgg agcagcccct ggaccctagc ctcatcccta 660
agctgatgag cttcctgaag ctggagaagg gcaagtttgg catggtgctg ctgaagaaga 720
cgctgcaggt ggaggagcgc tatccatata ccgttaggct ggaagccatg tacgaggta 780
tcgaccaagg ccccatccgt aggatcgaga agatcaggca gaagggttt gtccagaaat 840
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caccaaccag agagagtcgg gtgaagggtc tgagaaaact ggccgccact gcaccagctt 1020
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tgactcggtc cacgtcccgg gcgggaaaca gatgctgcaa gacctatgac caccactggc 1140
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acaaaattct tagtaatgag tatgaggaga agtatgacct cagccggcct actgcctctc 1560
agctggagga cgagctgcag gtggggaatg tttcccttaa aaaagcaaag gagtctaaaa 1620
agcatgaaaa gcttgagaaa ccagagaagg agaagaaaaa aaaaaaaaaa aaa 1673

```

<210> 874

<211> 988

<212> DNA

<213> Homo sapiens

<400> 874

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gggcggccag cgatgacccc attgagaagg tcattgaagg gatcaaccga gggctgagca 180
atgcagagag agaggtgggc aaggccctgg atggcatcaa cagtggaaac acgcatgccg 240
gaagggaagt ggagaagggt ttcaacggac ttagcaacat ggggagccac accggcaagg 300
agttggacaa aggcgtccag gggctcaacc acggcatgga caaggttgcc catgagatca 360

```


| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|
| accatggtat | tggacaagca | ggaaaggaag | cagagaagct | tggccatggg | gtcaacaacg | 420 |
| ctgctggaca | ggccgggaag | gaagcagaca | aagcgggtcca | agggttccac | actgggggtcc | 480 |
| accaggctgg | gaaggaagca | gagaaacttg | gccaaggggt | caaccatgct | gctgaccagg | 540 |
| ctggaaagga | aktggagaag | cttggcccaa | gtgccacca | tgctgctggc | caggccggga | 600 |
| aggagctgca | gaatgctcat | aatgggggtca | accaagccag | caaggaggcc | aaccagctgc | 660 |
| tgaatggcaa | ccatcaaagc | ggatcttcca | gccatcaagg | aggggccaca | accacgccgt | 720 |
| tagcctctgg | ggcctcggtc | aacacgcctt | tcatcaacct | tcccgccttg | tggaggagcg | 780 |
| tcgccaacat | catgccctaa | actggcatcc | ggccttgctg | ggagaataat | gtcgccgttg | 840 |
| tcacatcagc | tgacatgacc | tggaggggtt | gggggtgggg | gacaggtttc | tgaatccct | 900 |
| gaaggggggt | gtactgggat | ttgtgaataa | acttgataca | ctaaaaaaaa | aaaaaaaaaa | 960 |
| aaaaaaaaaa | aaaaaaaaag | gagggggg | | | | 988 |

<210> 875

<211> 1501

<212> DNA

<213> Homo sapiens

<400> 875

| | | | | | | |
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| ggccccgtga | gggtggattg | ccaaatgagc | agtctctctg | ccccagtcct | tttctctgtc | 120 |
| tataaataag | ccccatgttt | attttcttat | gttattgaaa | tgagcacttg | tgatttgggc | 180 |
| ctcttttag | gagtcagag | agcgtccatc | cgggtccctg | tgagggccct | gcatggctgg | 240 |
| ctgctgtctg | aagctatttg | gagtcctctc | cctgtgtttt | ctatgtggct | taatttcaat | 300 |
| agaaaggggt | atatgcaacc | ctgtatctgc | tgatttttcag | gtttcaactt | tctgccagcg | 360 |
| tactgcctg | cttagaagta | aagttatgtt | tcccataagg | ggataacagc | cacaattgag | 420 |
| gtaattaacg | aaaattgtac | attggtggca | gcacctccta | taggatttcc | aatagtcttt | 480 |
| ctctagtaga | tcattggggg | ctcaccttga | tctcctctct | tctgtctacc | ctgcaccaa | 540 |
| atacctgtgc | ctgttttctg | gatatagttc | caataatttt | tttcctaaca | gcctttttgt | 600 |
| caccagttgg | tttgatatct | tacaacttgg | ccaaatgagg | gttccattaa | ctccatcttg | 660 |
| tctaattgcat | ggagaattca | aggatttttt | tttccctctt | ttcatagcac | cttccagttg | 720 |
| ccagttgtac | cctggccctt | ctttggaagt | cataatgatg | aatatccatt | aataagagat | 780 |
| tgatgctctt | tcaactctca | tgcatcttat | accatctcag | tggagaggat | gactttggat | 840 |
| gaggttggaa | tacaaaggaa | acatttggaa | gtccactgca | gtgtattata | tgctgtgtgg | 900 |
| aagtcggggg | gttaggaaat | acctggaggg | agaacttcct | aagaaatgat | ttttggttct | 960 |
| tttaggcctt | aacagcacia | taaaagtatc | ccatgagacc | attatgagca | ggacacgaca | 1020 |
| ttgtttcaca | ccttgggctg | tgactattta | cttctcggta | cagattactc | tggttaaata | 1080 |
| actcagtaaa | gaaatctttt | catgctcaca | atctgaacct | gaaggctatt | actgaagaga | 1140 |
| attgcatctg | acaacaaaat | ttaatttact | tccagagaaa | ggaccagaag | aaagtaaatt | 1200 |
| ttcatattatg | tttttaagtc | tattgtctta | aaaagattct | tttcccttaa | aaaataaaaa | 1260 |
| aacctgatgt | gatgggttcc | ttcagtcac | aaatacttat | tgagcagttt | ttgtgtgcca | 1320 |
| gatactgttc | ttgggtgtgag | gatatggcac | tgaacaaaac | aatgtaccta | ctttcgtcaa | 1380 |
| gcttacattc | tagtgaggaa | gataaccaa | acaagtgact | gaatataatt | tcaaatgtca | 1440 |
| ataaatgctg | tgaagaaaat | aaagtcagag | tattatatgt | aaaaaaaaaa | aaaaaaaaaa | 1500 |
| a | | | | | | 1501 |

<210> 876

<211> 1083

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (528)..(528)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (815)..(815)

<223> n equals a,t,g, or c

<220>

<221> misc_feature
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (879)..(879)
 <223> n equals a,t,g, or c

<400> 876
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 gaactagtgg atcccccggt ctgcaggaat tcggcacgag ttgctaagtt gattaaaggt 120
 tggctctcca ctctgccact ggccacagca caaagtgaac acagatgtca caagcacctt 180
 gtagatctgt cccttttttc ttctgatgtt caccctcctt ttgagctctt tctttctcca 240
 acattgctta caaaataatc tttatgcac tgagagggag caaatattca gtaactttct 300
 gcagctgtcc tcactaaaga ggagaatctg ttgaatgcca ctggaaatgt aaggatctct 360
 tgtgacagta acatctcaag gggaactag tggtaaatt gttaattctt tgagtctgaa 420
 acttttttca ttgacagtgc agataagtgc ctgatcttgc agtatcacgt ttctgacttc 480
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 aactaaatat catcccggt gcagtcact acgatcgtgg aggagtcaga ttactctccg 660
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 tgggcccaca gcaccaccta cgtwgaatat ggagaaaatg tgaagcaaaa gtttctttt 780
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 gcatcttaaa ggatggtttg tggaaatcatg acatancana aaaatccagg tactatcagt 900
 cttgcctgtt tctacctaac tctttcattt aaactctcac tagaatctat aggaactgtt 960
 agcatcaatt ttaataagtt gtcaactaag tgattagtgg tatttattgg ttatttttga 1020
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 ccc 1083

<210> 877
 <211> 1904
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (88)..(88)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (102)..(102)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1895)..(1896)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (1900)..(1900)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1902)..(1903)
 <223> n equals a,t,g, or c

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tttcggcact tcgccccaaa aacttgatta gggtgatggt tcacgtagtg ggccatcgcc      180
ctgatagcgg tttttcgccc ttgacgttg aagtccacgt tctttaatag tggactcttg      240
ttccaaactg gaccaacact caaccctatc tcggtctatt cttttgattt ataagggatt      300
ttgccgattt cggcctattg gttaaaaaat gagctgattt aacaaaaatt taacgcgaat      360
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gcaaggcgat taagttgggt aacgccaggg tttcccagc cagcagcttg taaaacgacg      540
gccagtgaat tgtaatacga ctactatag ggcgaattgk ktaccggggc cccctcgag      600
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agaaggggctg aaaaactggt aagatttttt ataacctttc taactgggtt ggccacatgg      720
agcagaaaaa catggacttt agagtctgac aaacctgggt tcaaaattca gttttattac      780
tttctagctt gtgtatctgt gcaagtcact ttaattttct gagacttggt ttcttcattt      840
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gcccattttt tgggaaagag tcagtgcagt ggagggtggt tcactatgat ccctaagaat     1140
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atgataaata ctcgaactaa cttggcccag agaaccctac caaaaaaagg aatcaatgag     1500
tcagatcctt agaaaacagt tcctagagtc attctagcta atcttttcat cagttgagag     1560
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cattggcagt ttgggacagc attaatgttt ataatatgac cttgtctaca tttgggggtt     1740
ggcacaaaatt ttacttttac ttctcaactt caaaatttga tgattccatt attttgtcaa     1800
aaataacca taaataccac taatcactta gttgacaact tattaataat gatgctaaca     1860
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<210> 878
 <211> 1937
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
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<220>
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<220>

<221> misc_feature

<222> (1626)..(1626)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (1884)..(1884)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (1908)..(1908)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1916)..(1916)

<223> n equals a,t,g, or c

<400> 878

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| nacggaaccc | nctaaattga | atnaaaagctg | cagctccacc | gcggtggcgg | ccgctctaga | 60 |
| actagtggat | ccccgggct | gcaggaattc | ggcacgagca | gcatcagcag | tgtgatggta | 120 |
| caccaagaag | gggctgttga | tataaatttt | tttaaaatat | tggtatagtt | aaatacttat | 180 |
| attttaaaat | attggtgtgt | tttttggtgc | tataaattac | taacttgtgt | gttcctaaaa | 240 |
| tcaagttdaa | actaggataa | ttgtctagtt | cttgctttga | taagaacgca | gtagtctctga | 300 |
| tgcttgtgtc | catgtgtatg | ggctctgttat | tcttgcaagt | gggtaagcaa | tgcatagctt | 360 |
| ttttttatac | tgagagcact | agaaggccaa | agcatctcaa | aaccatgggt | tctgggtatg | 420 |
| cataatTTTT | ggaaaggcac | gataagcaaa | tctcacagtc | tggtctggta | gcagctgcag | 480 |
| ggataaggag | actaatggc | aaggccatgc | aaatgcaaa | agggaaggtga | ggaggattcc | 540 |
| cagatgtgat | catagcttgc | aaagatgggt | atctcatggg | gccagaattc | gtgcatgccc | 600 |
| acacctacaa | agctgagaac | tggtagtggg | catgtgtccg | cttcaagcaa | tgcatgtatt | 660 |
| cacagccgsc | agcatcaaga | ggggccatct | tttgatagga | tgacacatgc | atgktcaaac | 720 |
| atattttaaa | agattagga | gaaaagaata | ctgtgaacaa | atagaamcca | attatgagca | 780 |
| aatttcacgaa | ttcggstatg | tactattgwg | gctggcaaaa | scacttaaaa | ctaggctctc | 840 |
| tagcctgatt | ttcagccatc | attaccctc | actaagaatc | cttgtaaaat | ttcttccgta | 900 |
| aaagttaatt | acactcatca | ccactgtttg | ctaattgggag | caaaccctta | gccaatattt | 960 |
| tttagaataa | tatgggttggg | ataacttttt | tttttttttt | ttgctaaatg | aatgcatgat | 1020 |
| tatcttatac | aataaaaagta | taacacaaaa | tactgtttta | agatagtcgc | tgggactctc | 1080 |
| cttacccttg | aagtgtcccc | ctttccctcc | tccacatcca | gtcaaccgca | ggttccctccc | 1140 |
| agggttacta | tctgacatgt | tttagctctc | ttccttcttt | tccattcctc | tacaacttct | 1200 |
| ctagttcttg | ctttcattgt | ttctcaacca | aaacagtctc | cccttctctc | tctccattc | 1260 |
| ttgctgcctt | ccaaaacatc | ctctccaccc | tgccagagca | gctcacctta | gtcacagtct | 1320 |
| gactgcaact | gcatgtgctt | atcaatcctc | tcatttctcc | tcacaccta | taacagtgtc | 1380 |
| tttgacgctg | caacttgta | gccatttcgc | gggttagaaa | ataagtttca | tgggttgtaa | 1440 |
| ccagtgtttt | aaaaaaaaaa | aaaaaaaaact | cgaggggggg | cccgggtaycc | aattcgccct | 1500 |
| atagttagtc | gtattacaat | tcactggcgc | tcgtttttaca | acgtcgtgac | tgggaaaacc | 1560 |
| ctggcgcttac | ccaacttaat | cgccttgtag | cacatcccc | tttcgccagc | tggcgtaata | 1620 |
| gcgaanaggc | ccgcaccgat | cgccttcccc | aacagttgag | cagcctgaat | ggcgaatggc | 1680 |
| aaattgtaag | cgtaatatatt | ttgttaaaat | tcgcgttaaa | tttttggtta | atcagctcat | 1740 |
| tttttaacca | ataggccgaa | atcggaacaa | tcccttataa | atcaaaaagaa | tagaccgaga | 1800 |
| taggggttag | tggtgttcca | gttttggaac | aagagtccac | tattaaagaa | cgtggactcc | 1860 |
| aacgtcaaa | ggcgaaaaac | cgtntatcag | ggcgaaggcc | cactacgngg | accatnacc | 1920 |
| taatcaagtt | tttgggg | | | | | 1937 |

<210> 879

<211> 971

<212> DNA

<213> Homo sapiens

<220>
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 <222> (957)..(957)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (964)..(964)
 <223> n equals a,t,g, or c

<400> 879
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 ttttatctgt ggggcctttt tactgctcag agacaaaaga aagaggagag caccgaagaa 180
 gtgaaaatag aagttttgca tcgtccagaa aactgctcta agacaagcaa gaaggagagc 240
 ctactaaatg cccattatga cggtacctg gctaaagacg gctcgaaatt ctactgcagc 300
 cggacacaaa atgaaggcca ccccaaatgg tttgttcttg gtgttgggca agtcataaaa 360
 ggcctagaca ttgctatgac agatatgtgc cctggagaaa agcgaaaagt agttataccc 420
 ccttcatttg catacggaaa ggaaggctat gcagaaggca agattccacc ggatgctaca 480
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 aaacaaaatg acatggacaa tgacaggcag ctctctaaag ccgagataaa cctctacttg 600
 caaagggaat ttgaaaaaga tgagaagcca cgtgacaagt catatcagga tgcagtttta 660
 gaagatattt ttaagaagaa tgaccatgat ggtgatggct tcatttctcc caaggataac 720
 aatgtatacc aacacgatga actatagcat atttgtattt ctactttttt tttttagcta 780
 tttactgtac tttatgtata aaacaaagtc acttttctcc aagttgtatt tgctattttt 840
 cccctatgag aagatatttt gatctcccca atacattgat tttggtataa taaatgtgag 900
 gctgttttgc aaacttaaaa aaaaawwaaa aaaactsgag gggggcccggt acccaantcg 960
 ccgnatatga t 971

<210> 880
 <211> 968
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (241)..(241)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (954)..(954)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (961)..(961)
 <223> n equals a,t,g, or c

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 tctgtggggc ctttttactg ctacagagaca aaagaaagag gagagcaccg aagaagtga 180
 aatagaagtt ttgcatcgtc cagaaaactg ctctaagaca agcaagaagg gagacctact 240
 naaatgcccc ttatgacggc tacctggcta aagacggctc gaaattctac tgcagccgga 300
 cacaaaatga aggccacccc aaatggtttg ttcttgggtg tgggcaagtc ataaaaggcc 360
 tagacattgc tatgacagat atgtgccctg gagaaaagcg aaaagtagtt ataccccctt 420
 catttgcata cggaaaggaa ggctatgcag aaggcaagat tccaccgat gctacattga 480
 tttttgagat tgaactttat gctgtgacca aaggaccacg gagcattgag acatttaaac 540
 aaatagacat ggacaatgac aggcagctct ctaaaagccga gataaacctc tacttgcaaa 600

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gggaatttga aaaagatgag aagccacgtg acaagtcata tcaggatgca gttttagaag      660
atatttttaa gaagaatgac catgatgggtg atggcttcat ttctccaag gaatacaatg      720
tataccaaca cgatgaacta tagcatatgt gtatttctac ttttttttt tagctattta      780
ctgtacttta tgtatwaaac aaagtcmttt ttctccmagt tgkatttgct atttttcccc      840
tatgagaaga tattttgatc tccccaatac attgattttg gtataataaa tgtgaggctg      900
ttttgcaaac ttaaaaaaaaa atttaaaaaa actggagggg ggccccgtacc caantcgccg      960
natatgat

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<210> 881

<211> 2460

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (172)..(172)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2457)..(2457)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2459)..(2460)

<223> n equals a,t,g, or c

<400> 881

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gccagagcgg tgtccagcgc ggtgtagccg cagccgccgc tgtcaggcgc ancaacgggc      180
aaccccgtag aagtcgggtcg gcaggtcctc tccaacccgc cgctaccgcg ccgctgtggg      240
agagacccca gcaggagccc aarggcagct acggggggcg gaaggccgct ggcgcgcct      300
cggccagccc ttccgcgcg gttccactgc cttaaggatg acagtcgtag ggaaccctcg      360
aagttggagc tgccagtggt tgccaatcct gatactgttg ctgggcacag gccatgggcc      420
aggggtggaa ggcgtgacac actacaaggc cggcgaccct gttattctgt atgtcaacaa      480
agtgggaccc taccataacc ctcaggaaac ttaccactac tatcagcttc cagtctgctg      540
ccctgagaag atacgtcaca aaagccttag cctgggtgaa gtgctggatg gggaccgaat      600
ggctgagctt ttgtatgaga tccgctttcg ggaaaacgtg gagaagagaa ttctgtgcca      660
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ctttgaattt gtggttagatg acttgccaat ccggggcctt gtgggctaca tggaggagag      780
tggtttcctg ccacacagcc acaagatagg actctggacc catttggact tccacctaga      840
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gtctgagact tcagtggagc gtcggagtga caggcgccgt ggtgacgatg gtggtttctt      1020
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actgggtgggt tttgtggctg tcattctaatt gcgtgtgctt cggaatgacc tggctcggtg      1140
caacttagat gaggagacca cctctgcagg ttctgggtgat gactttgacc agggtgacaa      1200
tggctggaaa attatccata cagatgtctt ccgcttcccc ccataccgtg gtctgtcttg      1260
tgctgtgctt ggcgtgggtg ccagttcct ggcccttggc actggcatta ttgtcatggc      1320
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gtatgccctg acctgctgca tctctggcta cgtgtccagc cacttctacc ggcagattgg      1440
aggcgagcgt tgggtgtgga acatcattct caccaccagt ctcttctctg tgcccttctt      1500
cctgacgtgg agtgtgtgga actcagtga ttgggccaat ggttcgacac aggcctctgcc      1560
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cattggaggc atctttggga agaacaacgc cagcccttt gatgcacct gtcgcaccaa      1680
gaacatcgcc cgggagatcc caccacagcc ctggtaaacg tctactgtca tccacatgac      1740
tggttgaggc ttctgtcctt tcagtgccat ctctgtggag ctgtactaca tctttgccac      1800
agtatggggg cgggagcagt acactttgta cggcatcctc ttctttgtct tcgccatcct      1860
gctgagtggt ggggcttgca tctccattgc actcacctac ttccagttgt ctggggagga      1920

```

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|------|
| ttaccgctgg | tgggtggcgat | ctgtgctgag | tgttggctcc | accggcctct | tcattcttct | 1980 |
| ctactcagtt | ttctattatg | cccggcgctc | caacatgtct | ggggcagtac | agacagtaga | 2040 |
| gttcttcggc | tactccttac | tcactgggta | tgtcttcttc | ctcatgctgg | gcaccatctc | 2100 |
| ctttttttct | tccctaaagt | tcattccggta | tatctatgtt | aacctcaaga | tggactgagt | 2160 |
| tctgtatggc | agaactattg | ctgttctctc | cctttcttca | tgccctgttg | aactctccta | 2220 |
| ccagcttctc | ttctgattga | ctgaattgtg | tgatggcatt | gttgccttcc | cttttgccct | 2280 |
| ttgggcattc | cttccccaga | gagggcctgg | aaattataaa | tctctatcac | ataaggatta | 2340 |
| tatatctgaa | ctttttaagt | tgcctttagt | tttggctctg | atttttcttt | ttacaattac | 2400 |
| caaaataaaa | tttattaaga | aaaagaaaaa | aaaaaaaaaa | aaaaaaaaag | ggggggngnn | 2460 |

<210> 882

<211> 1163

<212> DNA

<213> Homo sapiens

<400> 882

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| ctgccagtg | cctgggcccc | tcctgccctc | tgggttctag | ggtgctgcgc | cctgctcctc | 120 |
| tcgctgtggg | cgctgtgcac | agcctgccgc | aggcccgagg | acgctgtagc | ccccaggaag | 180 |
| agggcgcgga | ggcagcgggc | gaggctgcag | ggcagtgcca | cggcgggcga | agcgtcccta | 240 |
| ctgaggcgga | cccacctctg | ctccctcagc | aagtcggaca | ccagactgca | cgagctgcac | 300 |
| cggggcccg | gcagcagcag | ggccttgcgg | cctgccagca | tggatctcct | gcgcccacac | 360 |
| tggctggagg | tgtccaggga | catcaccgga | ccgcaggcag | ccccctctgc | cttcccacac | 420 |
| caggagctgc | cccgggctct | gccggcagct | gcagccaccg | cagggtgcgc | tggcctcgag | 480 |
| gccacctatt | ccaacgtggg | gctggcgggc | cttcccgggg | tcagcctggc | ggccagccct | 540 |
| gtggtggccg | agtatgccc | cgccagaag | cgcaaaggga | cccatcgag | tccccagag | 600 |
| ccacagcagg | ggaagactga | ggtgaccccg | gccgctcagg | tggacgtcct | gtactccagg | 660 |
| gtctgcaagc | ctaaaaggag | ggacccagga | cccaccacag | acccgctgga | ccccaaaggc | 720 |
| cagggagcga | ttctggccct | ggcgggtgac | ctggcctacc | agacctccc | gctcaggggc | 780 |
| ctggatgtgg | acagcgggcc | cctggaaaac | gtgtatgaga | gcacccggga | gctgggggac | 840 |
| cctgctggca | ggagcagcac | gtgcggggct | gggacgcccc | ctgcttccag | ctgccccagc | 900 |
| ctaggggagg | gctggagacc | cctccctgcc | tccttgccct | gaacactcaa | ggacctgtgc | 960 |
| tccttctctc | agagttaggc | ccgtccccc | ccccgcccc | cctcacagct | gacagcgcca | 1020 |
| gtcccaggtc | cccgggccc | cagcccgtga | ggtccgtgag | gtcctggccg | ctctgacagc | 1080 |
| cgcggcctcc | ccgggtccca | gagaaggccc | gcgtctaaat | aaagcgccag | cgcaggatga | 1140 |
| aagcgaaaaa | aaaaaaaaaa | aaa | | | | 1163 |

<210> 883

<211> 1183

<212> DNA

<213> Homo sapiens

<400> 883

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
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| acaggatggg | gctgccagtg | tcctgggccc | ctcctgcctc | ctgggttcta | gggtgctgcg | 120 |
| ccctgctcct | ctcgtgtggg | gcgctgtgca | cagcctgccg | cagcccagag | acgctgtagc | 180 |
| ccccaggaag | agggcgcgga | ggcagcgggc | gaggctgcag | ggcagtgcca | cggcgggcga | 240 |
| agcgtcccta | ctgaggcgga | cccacctctg | cttccctcag | caagtcggac | accagactgc | 300 |
| acgagctgca | ccggggcccc | cgcagcagca | gggcccctgc | gcctgccagy | atggatctcc | 360 |
| tgcgcccaca | ctggctggag | gtgtccaggg | acatcaccgg | accgcaggca | gccccctctg | 420 |
| ccttcccaca | ccaggagctg | ccccgggctc | tgcggcgagc | tgcagccacc | gcaggtgcgc | 480 |
| tggcctcgag | gccacctatt | ccaacgtggg | gctggcgggc | cttcccgggg | tcagcctggc | 540 |
| ggccagccct | gtggtggccg | agtatgccc | cgccagaag | cgcaaaggga | cccatcgag | 600 |
| tccccaaag | ccacagcagg | ggaagactga | ggtgaccccg | gccgctcagg | tggacgtcct | 660 |
| gtactccagg | gtctgcaagc | ctaaaaggag | ggacccagga | cccaccacag | acccgctgga | 720 |
| ccccaaaggc | cagggagcga | ttctggccct | ggcgggtgac | ctggcctacc | agacctccc | 780 |
| gctcaggggc | ctggatgtgg | acagcgggcc | cctggaaaac | gtgtatgaga | gcacccggga | 840 |
| gctgggggac | cctgctggca | ggagcagcac | gtgcggggct | gggacgcccc | ctgcttccag | 900 |
| ctgccccagc | ctagggagg | gctggagacc | cctccctgcc | tccttgccct | gaacactcaa | 960 |
| ggacctgtgc | tccttctctc | agagttaggc | ccgtccccc | ccccgcccc | cctcacagct | 1020 |
| gacagcgcca | gtcccaggtc | cccggggcgc | cagcccgtga | ggtccgtgag | gtcctggccg | 1080 |

ctctgacagc cgcgccctcc ccgggctcca gagaaggccc gcgtctaaat aaagcgccag 1140
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<210> 884
 <211> 1938
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1296)..(1296)
 <223> n equals a,t,g, or c

<400> 884
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 aacatcctgc agttcatctt catcgcccta aagctggaca ggattattca ctggccgtgg 180
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 tacatcgctc ggtccctcct gttcctgcgg tccctggatg tggttgccga gcagcggaga 300
 acacacgtga ccatggctat cagttggata acgattgtcg tgcctctgct cacttttgag 360
 gtccctgctg ttacagatt ggatggccac aatacattct cctacgtctc catattgtc 420
 cccctttggc ttcccttact aactttaatg gccacaacat ttaggcgaaa ggggggcaat 480
 cattgggtgt ttggcattcg cagagacttc tgtcagtttc tgcttgaaaw tttcccat 540
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 tccatttcta agaattctaa actattagtt ggctgtagt tgaagcatta cttgtcattg 1740
 gaaagatgga gagagtggcc ttaaccggaa gtggtcagta gaagcaggtg tcattttaag 1800
 ggccaaactt taatctgtca gcaataggga aacaactgtt caaattatct ttgtagataa 1860
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<210> 885
 <211> 768
 <212> DNA
 <213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (743)..(743)

<223> n equals a,t,g, or c

<400> 885

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| tgcctgnagc | gcgtgtgtaa | aggactgggg | aggcgtgtct | tgaaaaagca | actgcagaaa | 60 |
| ttccttatga | tgattgtgtg | caagttagtt | aacatgaacc | ttcatttgta | aattttttaa | 120 |
| aatttctttt | ataatatgct | ttccgcagtc | ctaactatgc | tgcgttttat | aatagctttt | 180 |
| tcccttctgt | tctgttcatg | tagcacagat | aagcattgca | cttggtacca | tgctttacct | 240 |
| catttcaaga | aaatatgctt | aacagagagg | aaaaaaatgt | ggtttggcct | tgctgctggt | 300 |
| ttgatttatg | gaatttgaaa | aagataatta | taatgcctgc | aatgtgtcat | atactcgcac | 360 |
| aacttaaata | ggtcattttt | gtctgtggca | tttttactgt | ttgtgaaagt | atgaaacaga | 420 |
| tttgtaact | gaactcttaa | ttatgttttt | aaaatgtttg | ttatatattt | tttctttttt | 480 |
| cttttatatt | acgtgaagtg | atgaaattta | gaatgacctc | taacactcct | gtaattgtct | 540 |
| tttaaaatac | tgatattttt | atttgktaat | aatactttgc | cctcagaaaag | attctgatac | 600 |
| cctgccttga | caacatgaaa | cttgaggctg | ctttggttca | tgaatccagg | tgttcccccg | 660 |
| gcagtcggct | tcttcagtcg | ctccctggag | gcagggtggc | actgcanagg | acactggaat | 720 |
| ccagancgag | cgagttcat | gcncaggcc | ccgtgattta | aaatatgt | | 768 |

<210> 886

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> misc_feature

<222> (18)..(18)

<223> n equals a,t,g, or c

<400> 886

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| aananaaact | acntccgntt | ttagggttag | ggggcctggc | cttgctgctg | ttttgattta | 60 |
| tggaatttga | aaaagataat | tataatgcct | gcaatgtgtc | atatactcgc | acaacttaaa | 120 |
| taggtcattt | ttgtctgtgg | catttttact | gtttgtgaaa | gtatgaaaca | gatttggtta | 180 |
| ctgaactctt | aattatgttt | ttaaaatgtt | tggtatat | cttttctttt | ttcttttata | 240 |
| ttacgtgaag | tgatgaaatt | tagaatgacc | tctaacactc | ctgtaattgt | cttttaaaat | 300 |
| actgatattt | ttatttggtt | ataatacttt | gccctcagaa | agattctgat | accctgcctt | 360 |
| gacaacatga | aacttgaggc | tgctttggtt | catgaatcca | ggtgttcccc | cggcagtcgg | 420 |

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ctttttcagt cgctccctgg aggcagggtgg gcaactgcaga ggatcactgg aatccagatc 480
gagcgcagatt catgcacaag gccccgttga tttaaaatat tggatcttgc tctgttaggg 540
tgtctaattcc ctttacacaa gattgaagcc accaaactga gaccttgata ccttttttta 600
actgcatctg aaattatggt aagagtcctt aaccatttg cattatctgc agaagagaaa 660
ctcatgtcat gtttattacc tatatgggtg ttttaattac atttgaataa ttatattttt 720
ccaaccactg attacttttc aggaatttaa ttatttcag ataaatttct ttattttata 780
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gttggtggag acgccaatag caatatctag gaaatttgca ttgagaccat tgtattttcc 900
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<210> 887

<211> 768

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (581)..(581)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (675)..(675)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (721)..(721)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (723)..(723)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (742)..(742)

<223> n equals a,t,g, or c

<400> 887

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gatttgaaag aactgatgca atttctaaag cagcctgact tcctcccagg aggttactcc 180
cacaccaagc ctctgacttc atgaccacca gatttagaaa ttgaagtatc tatgtaagaa 240
gttgccctcct aggcagaaat caagaaatcc aactataaca taggttagag tccattttgg 300
tttttatatc cttccacaga ggaagaggga ggaagaatct ggagatgcgt ttttggtttt 360
tgggtttttkg tttttttttt tttccagagg ctcatgtata tcctacatca tggkcagttt 420
cagagcaggg ctgkgccacc atctcagtga ctccctggaat actaaattgg atctttgtag 480
aggaagaaaa taacacagtt cttagattttc cctagctggt aattagtttt atggcataat 540
taaaatagct caggagtaaa acaaaagtcc agccttaaca ncctgttaag tcttcttttc 600
ttatctgaaa agaggtaaga taatgaagtt taaacagttg aagaagttaa ccgggaaagg 660
aattaacatt tcaanggcct tgcgcgtttc ttctctctct tgtgatatga accagaattg 720

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768

<210> 888
 <211> 2087
 <212> DNA
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<220>
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 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
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 <222> (25)..(25)
 <223> n equals a,t,g, or c

<220>
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 <222> (73)..(73)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (94)..(94)
 <223> n equals a,t,g, or c

<220>
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 <222> (1552)..(1552)
 <223> n equals a,t,g, or c

<400> 888
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 actaaattgg atctttgttag aggaagaaaa taacacagtt ctagattttc cctagctgtt 180
 aattagtttt atggcataat taaaatagct caggagtaaa aacaaagtcc agccttaaca 240
 gcctgttaag tcttcttttc ttatcttgaa aagaggtaag ataatgaagt ttaaacagtt 300
 gaagaagtta accggaagg aattaacatt tcaaggcctt gccgcttctt cytcctcttg 360
 ygatatgaac cagaattgag ggaaaatagg caggagggaa cccacactga attttccaga 420
 ctctactgct gaaagacatt gtatatttt attgtaatca tatgtgatgc aagataatat 480
 tgctcatatc tgaatcccaa aagaaaagaa gatgtttgyc tgagcatccc atgaggttaag 540
 cagcccatg gaaggaccag ctgcatccag caaagggctc caggtccctg acgtagtga 600
 cgggtgatggc agaagtaaat ctttgtattc ttgcagagac tttgtttctg aaagaggcca 660
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 gatataatac ccctgattgg tttgttttaa aaataaacgt tattatgtta gtgtcatacc 960
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cgttttcgca aatgggtccc tatgtgtcat tgaaggagac agtgtatcta ggaaaagaaa 1920
tgaggatact gagcaagggt ttggtgggtc atgcctataa ttccagcatt ttgggagact 1980
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<210> 889

<211> 2096

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2070)..(2070)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2083)..(2083)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2090)..(2090)

<223> n equals a,t,g, or c

<400> 889

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ggctaccaac cgtggctaca ggggtgcgga gtggcagctg gaccagccat catggagtgg 180
cgggtgagg atcactgcaa agggacagat ggcctacatc aagctggagg acaggacgtc 240
aggggagctc tttgtcagg ccccggtgga tcagtttcct ggcacagctg tggagagtgt 300
gacggattcc agcagggtact tcgtgatccg catcgaagat ggaaatgggc gacgggcgtt 360
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ccatttcaag tgggtgaaac agcagtgtga atttgcaaaa caagcccaga acccagacca 480
aggccctaaa ctggacctgg gcttcaagga gggccagacc atcaagctca acatcgcaaa 540
catgaagaag aaggaaggag cagctgggaa tccccgagtc cggcctgcca gcacaggagg 600
gctgagcctg cttccccctc ccccaggggg gaaaacctcc accctgatcc ctccccctgg 660
ggagcagttg gctgtggggg gatccctcgt ccagccagca gttgctccca gttcaggagg 720
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tgggttttct ctttgggtgt ttctaaaagt ccttatctgc aaacaacttc tttctcctt 1800
caggaaactgt gaatggctag aagaaggagc tcagtaaat agaagtccag ggttgcttgg 1860
tttactggtt tataagaaat ctgaaagcac ctctgacatt ctttttatta actcacctct 1920

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| | | | | | | |
|-------------|-------------|-------------|-------------|------------|------------|------|
| cagttgaaag | atctctctctt | tgaaagggtca | agaccgtgaa | ctgaaaaaag | tggtggcctt | 1980 |
| tttgccgggac | cagatcttcta | agataaaata | aatatcttcta | cttctgtcat | tgtatgtgaa | 2040 |
| aagatgaatg | tgcttctggc | gcgtggcctgn | taaaactctt | canggtgccn | caagct | 2096 |

<210> 890

<211> 1707

<212> DNA

<213> Homo sapiens

<400> 890

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| tgccaaggtt | agcacctgcc | agaatcaacc | aaggccggac | aaggcatgag | gagcgtgct | 120 |
| tcttgggctt | ggctcctccc | ccttctcccc | atttgggctg | ctgtgccagg | gcttgctcca | 180 |
| gccacctggg | tgtagcttat | gccctctgcc | agaaatgtct | tttctcttat | tggtctggcc | 240 |
| acacctactc | agtctttggg | tctgtttaac | tgccacttcc | cccagtaaac | cttctgtctc | 300 |
| ccattcacat | cagatggact | tggtgtctct | gcactagtct | atgagatttg | gatgtctgtg | 360 |
| tccttagggc | ccaagctggc | cactctggcc | cagaagcagc | ctcgggccat | gtcttgtcta | 420 |
| cagggtgtgg | ggggacagta | tgtgcacccc | cttgccttct | caggtaggact | ttgaacagct | 480 |
| gactgagaac | ctggggcagc | tggagcgccg | gagccgggca | gccgaggaga | gcctgcggac | 540 |
| ttggccaagc | atgagctggc | cccagccctg | cgtgcccgcc | tcacccactt | cctggaccag | 600 |
| tggtcccgcg | cgtgttgcca | tgctaaggat | agtgcaccgc | cgtgtctgca | ataggttcca | 660 |
| tgcttctctt | ctctacctgg | gctacacccc | gcaggcgccc | cgtgaagtgc | gcatcatgca | 720 |
| gttctgccac | acgtgcgggg | aatttgcgct | tgagtatcgg | acttgccggg | aacgagtgtc | 780 |
| acagcagcag | cagaagcagg | ccacataacc | tgagcgcaac | aagaccgggg | gacgcatgat | 840 |
| caccgagggt | ggtgcccttc | caggtcttag | tcttgactgc | cacctccttg | gtttccttcg | 900 |
| ctcctcccag | ctcacccctc | ttctttctcc | agacagagaa | gttctcaggt | gtggctgggg | 960 |
| aagccccag | caaccctctt | gtcccagtag | cagtgcagcag | cggggccaggc | cggggagatg | 1020 |
| ctgacagtca | tgctagtatg | aagagtctgc | tgaccagcag | gcctgaggac | accacacaca | 1080 |
| atcgccgcag | cagaggcatg | gtccagagca | gtcccccatt | catgcccaca | gtggggccct | 1140 |
| ccactgcatt | cccagaagaa | ccccaggctt | ccagtttacc | cagtataaca | tcagatgaga | 1200 |
| tcattggacct | tctgtgagc | tcagtgcaca | agagcagtc | tcgtgcctta | gctgctaggg | 1260 |
| aacgcaagcg | ttcccgcggc | aaccgcgaag | cttgtaagta | acccccacac | atccactgc | 1320 |
| ccacctgaac | cccatcaacc | ccctccaacc | ctgctctgtc | cctgcagtga | gaaggacgtt | 1380 |
| gaagagtggg | ctcggagatg | acctggtgca | ggcactggga | ctaagcaagg | gtcctggcct | 1440 |
| ggagggtgtg | aggtgtctga | tcccggaaat | ctatctggac | cctggactgc | agtgcaggag | 1500 |
| atgacagagt | gaggagggcc | cagagcagaa | ttctggcccc | agaactctgt | gccaggagc | 1560 |
| catgccttga | gcagtattag | ccgtgtgtgt | atgcattgtg | gtgtgtgtgt | atgtgtgtgt | 1620 |
| gtgcattgat | atgcattgtg | atgtgtgtga | gtccttgtaa | cgcacggagc | aaaataaaat | 1680 |
| tttcttagct | aatccaaaaa | aaaaaaa | | | | 1707 |

<210> 891

<211> 1239

<212> DNA

<213> Homo sapiens

<400> 891

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| tgggcgggct | cctgttgctc | ctcgggctct | cgccggcgcg | gcccgcgcgc | gcagggtgag | 120 |
| cgaagatgaa | ggtgtgtggg | gagcccaacg | cgtttggggg | gaacaaccgc | ttcttgctct | 180 |
| aggccagtgc | cctccaggcc | aagagggatc | cttcacccgt | gtctggaccc | gtgcatctct | 240 |
| tccgactctc | gggcaagtgc | ttcagcctgg | tggagtccac | gtacaagtat | gagttctgcc | 300 |
| cgttccacaa | cgtgaccacg | cacgagcaga | ccttccgctg | gaacgcctac | agtgggatcc | 360 |
| tcggcatctg | gcacgagtgg | gagatcgcca | acaacacctt | cacgggcatg | tggatgaggg | 420 |
| acggtgacgc | ctgccgttcc | cggagccggc | agagcaaggt | ggagctggcg | tgtggaaaaa | 480 |
| gcaaccgggt | ggccccatgt | tccgagccga | gcacctgctg | ctacgcgctg | acgttcgaga | 540 |
| ccccctcgt | ctgccacccc | cacgccttgc | tagtgtaccc | aaccctgcca | gaggccctgc | 600 |
| agcggcagtg | ggaccaggta | gagcaggacc | tggccgatga | gctgatcacc | ccccaggggc | 660 |
| atgagaagtt | gctgaggaca | ctttttgagg | atgctggcta | cttaaagacc | ccagaagaaa | 720 |
| atgaacccac | ccagctggag | ggaggctcct | acagcttggg | gtttgagacc | ctggaaaact | 780 |
| gcagggaaggc | tcataaagaa | ctctcaaagg | agatcaaaag | gctgaaaggt | ttgctcacc | 840 |
| agcacggcat | cccctacacg | aggcccacag | aaacttccaa | cttgaggcac | ttggggccag | 900 |

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agattcsagg ttttaattaa ttcccatact gataaaaaata actccatgaa ttctgtaaac    1140
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<210> 892

<211> 1333

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<220>

<221> misc_feature

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<223> n equals a,t,g, or c

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<222> (1330)..(1330)

<223> n equals a,t,g, or c

<400> 892

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agctggtacc aaagcaagtt tttcactgag ctctcatgaa agatcctcag tctcttgtgg      60
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ctatgttaca agttttgccca tttgtgccag tggacaaccc cggggtaatc agttgaaagg    180
agagaactac tccccaggt atacttgacag cattcctggc ttgcctggac ctccagggcc    240
ccctggagca aatgggtccc ctggggccca tggtcgcac gccttccag gaagagatgg    300
tagagacggc aggaaaggag agaaagggtga aaagggaact gcaggtttga gaggtaagac    360
tggaccgcta ggtcttgcgc gtgagaaagg ggaccaagga gagactggga agaaaggacc    420
cataggacca gagggagaga aaggagaagt aggtccaatt ggtcctcctg gaccaaaggg    480
agacnnatga tancntnggg acccggggct gcctggagtt tgcagatgtg gaagcatcgt    540
gctcaaatcc gccttttctg ttggcatcac aaccagctac ccagaanaaa gactacctat    600
tatatttaac aaggctcctc ttccacgagg ganagcacta caaccctgcc acaggggaag    660
ttcatctgtg ctttccagg ggatctatta cttttcttat gatatcacat tggctaataa    720
gcattctggca atcggactgg tacacaatgg gcaataccgg ataaagacct tcgacgcaa    780
cacaggaaac catgatgtgg cttcggggtc cacagtcac tatctgcagc cagaagatga    840
agtctggctg gagattttct tcacagacca gaatggcctc ttctcagacc caggttgggc    900
agacagctta ttctccgggt ttctcttata cgttgacaca gattacctag attccatct    960
agaagatgat gaattgtgat caggaccaag atccctgtgg taaacactct gattgaatct   1020
ggggttccag aagggtggaac aagcaggaat gggatccaaa gagactccca ctcagattct   1080

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| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------|
| aaagcattta | aagacaattc | tagcagaatt | tatcaaaaaca | agatgaaaca | cagaaaagtt | 1140 |
| gaaaccacaa | caaaatgaat | tctattaaag | aatagcccca | gatataaatt | ctcttgaaaag | 1200 |
| caatgttcat | aaatatTTaa | gcaaattaaa | gacaatgtta | acaaattttc | tattaaatgc | 1260 |
| cctgagtgat | aaaaccagtt | ggcaataata | ttgccttatt | aaatcttcaa | aaaataaaaa | 1320 |
| aaattaaaaa | aaa | | | | | 1333 |

<210> 893

<211> 1797

<212> DNA

<213> Homo sapiens

<400> 893

| | | | | | | |
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| gagagggcca | cgcctccatt | caccaggcca | cgcatacaca | gaggcaacac | caggagccaa | 120 |
| catgagctcg | gggactgaac | tgctgtggcc | cggagcagcg | ctgctgggtgc | tggtgggggt | 180 |
| ggcagccagt | ctgtgtgtgc | gctgctcacg | cccagggtgca | aagaggtcag | agaaaaatcta | 240 |
| ccagcagaga | agtctgctgtg | aggaccaaca | gagctttacg | gggtcccggga | cctactcctt | 300 |
| ggtcgggagc | gcatggccag | gacccctggc | ggacatggca | cccacaagga | aggacaagct | 360 |
| gttgcaattc | tacccagacc | tggaggatcc | agcatcttcc | aggtaccaga | acttcagcaa | 420 |
| aggaagcaga | cacgggtcgg | aggaagccta | catagacccc | attgccatgg | agtattacaa | 480 |
| ctggggggcg | ttctcgaagc | ccccagaaga | tgatgatgcc | aattcctacg | agaatgtgct | 540 |
| catttgcaag | cagaaaaacca | cagagacagg | tgcccagcag | gagggcatag | gtggcctctg | 600 |
| cagaggggac | ctcagcctgt | cactggccct | gaagactggc | cccacttctg | gtctctgtcc | 660 |
| ctctgcctcc | ccggaagaag | atgaaggat | ctgaggatta | tcagaacttc | agcattccat | 720 |
| ccattcagtg | gcgcgagtc | aggaaggcca | tggggcaact | ccagagaaga | aagcatcccc | 780 |
| tggcccggtg | ggaagcccag | acgaggagga | cggggaaccg | gattacgtga | atggggaggt | 840 |
| ggcagccaca | gaagcctagg | gcagaccaag | aagaaaggag | ccaaggcaca | gagggaccac | 900 |
| tgtgctcatg | gacccatcgc | tgccctccaa | ggaccatttc | ccagagctac | tcaactttta | 960 |
| agcccctgcc | atggttgctc | ctggaaggag | aaccagccac | cctgaggacc | acctggccat | 1020 |
| gcgtgcacag | cctgggaaaa | gacagttact | cacgggagct | gcaggccccc | tcaccaagcc | 1080 |
| ctctcccagg | ccaggctttg | tggggcaggc | acctgggtacc | aagggttaacc | cggctcctgg | 1140 |
| tatggacgga | tgcgacggat | ttaggataag | ctgtcaccca | gtccccataa | caaaaccact | 1200 |
| gtccaacact | ggtatctgtg | ttcttttgtg | ctatgaattt | ggattcctaa | ttgctattgt | 1260 |
| tggttgctgg | ggtttttaa | gattgataag | ctgtgtacag | taacttatag | agggggagcc | 1320 |
| atatttaaca | ttctggattt | cagagtagag | atttctgtgt | tgtctcctag | aaagcattac | 1380 |
| atgtagttta | tttcagcatc | cttggtgggt | ggggccctgg | ctctcttccc | ctttggtggg | 1440 |
| acctcccctt | tctttgggct | tcagttcact | caggaagaaa | tgaggctgtc | gccatcttta | 1500 |
| tgtgcttcca | gtggaaatgt | cacttgctac | agacaatagt | gcatgagagt | ctagagaagt | 1560 |
| agtgaccaga | acagggcaga | gtagggtccc | tccatggccc | tgaatcctcc | tctgctccag | 1620 |
| ggctggcctc | tgacagagctg | attaaacagt | gttggtgactg | tctcatggga | agagctgggg | 1680 |
| cccagaggga | ccttgagtca | gaaatgttgc | cagaaaaagt | atctcctcca | accaaaccat | 1740 |
| ctcaataaaa | ccatttttagt | tgaaaaaaa | aaaaaaaaa | aaaaaaaaa | aaaaaaa | 1797 |

<210> 894

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 894

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| ctaggagcct | cctaattgcag | tgttctgcac | agtccctggg | actgactgac | tgaatcacac | 60 |
| ctctggggct | gggggctgct | gacatgtgtg | cctttccttg | gctgcttctt | ctcctgctgc | 120 |
| tccaggargg | cagccaaagg | agactctgga | gatgggtgtg | atccgaggaa | gtgggtgctg | 180 |
| tccttcagga | gtccatcagc | ctccccctgg | aaataaccac | agatgaagag | gttgagaaca | 240 |
| tcattctggtc | ctctcacaaa | agtcttgcca | ctgtggtgcc | agggaaagag | ggacatccag | 300 |
| ctaccatcat | ggtgaccaat | ccacactacc | agggccaaat | gagcttctctg | gaccccarct | 360 |
| attccctgca | tatcagcaat | ctgagctggg | aggattcagg | gctttacca | gctcaagtca | 420 |
| acctgagaac | atcccagatc | tctaccatgc | agcagtacaa | tctatgtgtc | taccgatggc | 480 |
| tgtcagagdc | cccasatcac | tgtgaacttt | gagagttctg | gggaagggtgc | ctgcagtatg | 540 |
| tccctgggtg | gctctgtgga | graaggcagg | catggatatg | acctacagct | ggctctccc | 600 |
| gggggatagc | acttatacat | tccatgaagg | ccctgtcttc | agcacatcct | ggaggccggg | 660 |
| ggacagtgc | ctctcctaca | cctgcagagc | caacaacccc | atcagcaacg | tcagttcttg | 720 |

```

ccccatccct gatgggccct tctatgcaga tcctaactat gcttctgaga agccttcaac      780
agccttctgc ctctggcca agggattgct catcttcttg ctcttggtta ttctggccat      840
gggactctgg gtcattccgag tccagaaaag acacaaaatg ccaaggatga agaaactcat      900
gagaaacaga atgaaattga ggaaggaggg aaagcctggc tccagccctg cctgactgct      960
ccttggaac cccagtcctg agcttggttt ctcccagca cccagagaat ccttcctcag     1020
ctctcttctt tccaggggaa ggaggtgctc aggggtgggt atccagagag ccatacttct     1080
gaggggaagac tggctggcaa taaagtcaaa ttaagtgacc accaaaaaaa aaaaaaaaaa     1140

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<210> 895

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (646)..(646)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (670)..(670)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (696)..(696)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (707)..(707)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (718)..(718)

<223> n equals a,t,g, or c

<400> 895

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ggttgtgtgt gtgctgtgtg gtcataaggt cctttctggc tctaataacc tgagcttctg     180
ttatgaagct gggaccctta gagcctcagg atgacctctc gtttgtttgt gaagcccaa      240
tcaggtgcta agcaccatag tggcacttag ctgaagctcc tctgtaactc ctgtggggcc      300
tgcttgccc acccccgaca gctgctgcag tgctcctgag cagcacaggc ctgatggagc      360
ttctggagaa gatgctggcc ctcaccttgg caaaggcaga ttctcccagg actgcactcc      420
tctgctctgc ctggctgctc actgctcct tctctgcca gcagcacaag ggcagtttgc      480
aggttcacca gacactctct gtggaaatgg accargtatt gaaggctctc agctttccaa      540
agaaaaaggc tgcaactctc tcaactgcca tcttatgctt cctgcgga gacctgcgac      600
aaagcttttc ctctgcctgg aaccctgggt ccttaaggg ccagncact gcagccacca      660
aggacactgn cctaacttca ctgccaatgt ccaagnccgg cctggncat tgggctgnaa      720
aaacctctg gtgcaaaa                                     738

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<210> 896

<211> 935

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (6)..(6)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (14)..(14)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (16)..(16)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (50)..(50)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (95)..(95)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (101)..(101)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (139)..(139)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (176)..(176)

<223> n equals a,t,g, or c

<400> 896

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| ggccanccttt | tttntngggg | aaaaaatggg | acccaaaagt | tatttgaaan | gggctttttc | 60 |
| aagctttttc | ccaaaaggaa | aaaaagggtt | gccantaatt | nttcaaggat | tgcccatctt | 120 |
| taatgctttc | cttggggana | agccttgcca | caaaagcttt | ttccttctgc | cctggnagcc | 180 |
| ctgggtgcct | caggggcca | gccactgcca | gccaccaagg | acactgtcct | agctccactg | 240 |
| cgaatgtcgc | aagtcgggtc | cctgggtcatt | gggctgcaga | acctcctggg | gcagaaggac | 300 |
| cctctattgt | cccaggcctg | tggtggctgc | ctggaggcct | tgcttgacta | cctggatgcc | 360 |
| cggagccccag | acattgctct | ccacgtggcc | tcccagcctt | ggaatcggtt | tttgctgttt | 420 |
| accctcttgg | atgctggaga | gaattccttc | ctcagacctg | agattttgag | gctcatgacc | 480 |
| ctgtttatgc | ggtaccggag | tagcagtgtc | ctctctcatg | aagagggtgg | tgatgttctg | 540 |
| caagggtgtg | ctttggctga | cctgtctacc | ctctcgaaca | ccacactcca | ggccctgcat | 600 |
| ggcttcttcc | agcagctcca | gagcatggga | cacctggctg | accacagcat | ggcccagacc | 660 |
| ctgcaggcct | ccttggagg | ccttccccct | agcacctcct | caggccagcc | acccctgcag | 720 |
| gacatgctct | gcctgggagg | ggtggctgta | tcctgtctcc | acatcagaaa | ctgatcctca | 780 |
| ggacttgaag | gcccagaagt | ggagagagaa | tgagacctgg | agacaaaggg | cataattgtt | 840 |
| ggggaaatgg | atgacagctg | aagctattca | tatggagcca | tatactctat | tgttgaaata | 900 |
| gaataaggaa | ataaaatgat | acactcacia | aaaaa | | | 935 |

<210> 897

<211> 810

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (688)..(688)
 <223> n equals a,t,g, or c

<400> 897
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 ctgtgttttg tagccactac atcttccaaa atcccatcca tcaactgacc acactttata 120
 gacaactgca tagaagccca caacgaatgg cgtggcaaa tcaaccctcc cgcggccgac 180
 atgaaataca tgatttggga taaaggttta gcaaagatgg ctaaagcatg gggcaaacca 240
 gtgcaaatgt gaacataatg actgtttgga taaatcatat aaatgctatg cagctttkga 300
 awawgttggg gaaaatatct ggtaggtgg aataaagtca ttcacacca gacatgccat 360
 tacggcttgg tataatgaaa cccaatttta tgattttgat agtctatcat gctccagagt 420
 ctgtggccat tatacacagt tagtttgggc caattcattt tatgtcggtk gtgcarttgc 480
 aatgtgtcct aaccttgggg gagcttcaac tgcaatattt gtatgcaact acggacctgc 540
 aggaaatttt gcaaatatgc ctcttacgt aagaggagaa tcttgctctc tctgctcaaa 600
 agaagagaaa tgtgtaaaga acctctgcaa aaatccattt ctgaagccaa cggggagagc 660
 acctcagcag acagccttta atccatttca gcttaggttt tcttctctcg agaattcttt 720
 aatgtcattt atatacaaaa gaaattctca aatgttaaaa taaaggaata gtttattgct 780
 taaaaaaaaa aaaaaaaaaa aaaaactcga 810

<210> 898
 <211> 1092
 <212> DNA
 <213> Homo sapiens

<400> 898
 gctacgacc tgattacgcc aagctcgaaa ttaaccctca ctaaagggaa caaaagctgg 60
 agctccaccg cgggtggcggc cgctctagaa ctagtggatc ccccgggctg caggaattcg 120
 gcacgagcgg tttccgcggt ggccatgact gcggccgtgt tcttcggctg cgccttcatt 180
 gccttcgggc ctgcgctcgc ctttatgtc ttcaccatcg ccaycgagcc gttgcgtatc 240
 atcttctca tcgccggagc tttcttctgg ttggtgtctc tactgatttc gtcccttggt 300
 tggttcatgg caagagtcac tattgacaac aaagatggac caacacagaa atatctgctg 360
 atctttggag cgtttgtctc tgtctatc caagaaatgt tccgatttgc atattataaa 420
 ctcttaaaaa aagccagtga aggtttgaag agtataaacc caggtagagc agcaccctct 480
 atgcgactgc tggcctatgt ttctggcttg ggctttggaa tcatgagtgg agtattttcc 540
 tttgtgaata ccctatctga ctcttgggg ccaggcacag tgggcattca tggagattct 600
 cctcaattct tcctttattc agctttcatg acgctggtca ttatcttctg gcatgtattc 660
 tggggcattg tattttttga tggctgtgag aagaaaaagt ggggcatcct ccttatcggt 720
 ctctgaccc acctgctggt gtcagcccag accttcataa gttcttatta tggataaaac 780
 ctggcgtcag cttttataat cctgggtgctc atgggcacct gggcattctt agctgcggga 840
 ggcagctgcc gaagcctgaa actctgcctg ctctgccaa acaagaactt tcttctttac 900
 aaccagcgt ccagataacc tcagggaacc agcacttccc aaaccgcaga ctacatcttt 960
 agaggaagca caactgtgcc tttttctgaa aatccctttt tctggtggaa ttgagaaaga 1020
 aataaaacta tgcagatatg cgttccattc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
 aaaaaaaaaa aa 1092

<210> 899
 <211> 284
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n equals a,t,g, or c

<400> 899
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 tcagcgtgtc aggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 120
 gggggggggg gggggggggg gggggggggg gggggcggtg ataagctacc ctgtctcacc 180
 atgtgctggt gtggaacgg ggccagcca gcacgcctca aggtagatgg aatccccact 240

ggtcagagaa aaagctatgc ggacactcca gcttggcctg ggtc

284

<210> 900
 <211> 1494
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (52)..(52)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (453)..(453)
 <223> n equals a,t,g, or c

<400> 900
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 ttttgtagtc agagtaagct gggggcccag tttcaatctt ctgcatatgg ctagccagta 180
 atcccagcac catttattaa atggggactt ctttcccat tgcttgttt tgtcagcttt 240
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 aatgtcattg gtagtttgat aggatagcat tgaactattt gctcaactca acattttagg 540
 aatttatttc tgctgtctag tgctcaaac ttgcagctag aattgaggga agagagagac 600
 cttcttatat tgttttatat tgtttkatak tcagtacctg ttttaagaaa aaacaacaag 660
 gaagtaaaac caaagacarg cagcccr gcg ccaggcccra aaccaggcct gggcctgcct 720
 ggcctaaacc cagtagttaa aaatcaactc ataacttaga aacygatgtt attcatagat 780
 tccagacatt gtatagaaga acattgtgaa actccctgcc ctgttctgtt tctctctgac 840
 caccggtgca tgcagcccct gtcaygtacc gctgcttgc tcaaatacaat caygaccctt 900
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 ccgggtagga aattgccccg gtggaatgcc tcaccagagc agcgtgtagc agttccctgt 1260
 ggaggattaa cacagtggct gaacaccggg aaggaactgg cacttgaggt ccggacatct 1320
 gaaacttgat ctccagcacc ctgccggtgg actactgaga gacgaggtgc cagggtgggt 1380
 cctgaaagtg cctgagcccc aacttatcag caaggagctc atcatgctga cagaagtcac 1440
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<210> 901
 <211> 1014
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

<222> (19)..(19)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (83)..(83)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (124)..(124)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (929)..(929)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1000)..(1000)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1007)..(1007)
 <223> n equals a,t,g, or c

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 aggnnttcac cgccccagtg atttccaggc tctctggctg aaggctgcct gcctggaggg 180
 gacatcaggg aagaggcttc cggagagggg atggggagaaa gtaggggatg tggcttgagc 240
 tgcagtcaca ggccttggct ggaccagggg tggccccag ctcccaggag ggcccactga 300
 ccctgcagct ccagccttct ccatactca acaaagaatg agttgtggca atgagggaag 360
 agagaccctc tcatagtgtt ttatactcag tacctgtttt aagaaaaaac aacaaggaag 420
 taaaaccaaa gacaggcagg cagcctggcg ctaggcccca aaccaggcct gcgcctgyct 480
 ggcctaaacc cagtagtgta aaatcaattc ataactaga aaccgatgtt attcatagat 540
 tccagacatt gtatagaaga acatttgtga aactccctgc cgtgttctgt ttctctctga 600
 ccgcgcgtgc atgcagcccc tgtcacgtac cgcctgcttg ctcaaatcaa tgacgacct 660
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 gaaacgaggt gactgacgga cggctgagac agcccttagg caacttaggc ctgccccgtg 900
 gagcgtccct gcggggactc cggccagcgt gagtgatgcc atccaaagag tgctcctggg 960
 taagcattgc cccggtggaa ggccttgcca gacgagcag tagcagncct tgcg 1014

<210> 902
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<400> 902
 ggcacgaggc gcctcggacg gccgtcgggg ccgagaaacc atgagcccca ggggcacggg 60
 ctgctccgcc gggctgctga tgactgtcgg ctggctgctt ctggcgggcc tccagtcgcc 120
 gcgcgggacc aacgtcaccg ctgccgtcca gtagtccggc ctggccacag aaggcgaggg 180

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|------|
| cgaggaggag | accgaaaaaca | acgacagcga | gaccgcggag | aactacgctc | cgtctgaaac | 240 |
| cgaggatgtt | tcaaatagga | atstcgtcaa | agaagtagaa | ttcggaatgt | gcaccgttac | 300 |
| atgtggtatt | ggtgtagag | aagttatatt | aacaaatgga | tgccctggtg | gtgaatccaa | 360 |
| gtgtgttgta | cgggtagaag | aatgcccggtg | gaccaacaga | ttgtgggctgg | ggtaaaccac | 420 |
| tttcagaaag | tcttgaaagt | gttagattgg | catgtattca | cacatctccc | ttaaatcggt | 480 |
| tcaaatatat | gtggaacttc | taagacaaga | ccacaatcca | ttatacttgt | aaatgattca | 540 |
| gcaatcctag | aagtagcaac | ggaaagtcac | cccttggtct | tcgagtgtga | cacactggat | 600 |
| aataatgaaa | tartagcaac | tattaaattc | acagtctata | cgagcagtga | attgcagatg | 660 |
| agaagatcaa | gcctaccagc | cactgatgcc | agccctaatt | tttgtgctga | ccataggagt | 720 |
| cattatctgt | gtatttataa | ttttcttatt | gatcttcata | atcataaatt | gggcagcagt | 780 |
| caaggctttc | tggggggcaa | aagcctctac | acctgaggta | caatccgagc | agagtctctg | 840 |
| gagatacaaa | gattcaactt | ctcttgacca | attaccaaca | gaaatgcctg | gtgaagatga | 900 |
| tgctttaagt | gaatggaatg | aatgatgttt | gaatgatata | taacaaacca | aaggatatta | 960 |
| cagaatatta | gattcattat | tacaaaaata | aaatacacat | tgaataactt | taaaaaaaaa | 1020 |
| aaaaaaaaaa | aaactcga | | | | | 1038 |

<210> 903

<211> 745

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (312)..(312)

<223> n equals a,t,g, or c

<400> 903

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| gtacaggact | gagaagcaga | taacaagagt | gacgctcaca | gggctgggct | gacgctaaca | 60 |
| ggaggcagtg | tgtggtcga | agattcttga | acccacagca | gcagctgcgg | ccaccccatc | 120 |
| ctgcccacag | ctccagccct | gagacgacga | ggaggagagt | cgactttgcc | tcttgcccaa | 180 |
| gggacctgc | ccagggtccg | gtggctctcc | ctgatcctcc | tcaccattcc | cctggccctg | 240 |
| gtggccagga | aagacccaaa | aaagaatgag | acgggggtgc | tgaggaaatt | aaaacccgtc | 300 |
| aatgccttca | antgccaacg | tgggaagcagt | gtyygtggtt | ttgccatgca | agaatacaac | 360 |
| aaagagagcg | aggacaagta | tgtcttcctg | gtgggtcaaga | cactgcaagc | ccagcttcag | 420 |
| gtcacaaatc | ttctggaata | ccttattgat | gtagaaattg | cccgcagcga | ttgcagaaag | 480 |
| cctttaagca | ctaagtgaat | cgcgccattc | aagaraaactc | caagctgaaa | aggaaattaa | 540 |
| gctgcagctt | tttggttagga | gcacttccct | ggaatggtga | attcactgtg | atggagaaaa | 600 |
| agtgtgaaga | tgcttaatgg | tgttttgagg | catccctcca | acctctgtga | ctactttatc | 660 |
| catgaaaatg | aagcaatggg | cagggtggag | gctcttccca | atgtgctttc | ttcaaaaaaa | 720 |
| aaaaaaaaaa | aaaaaaaaaa | ctcga | | | | 745 |

<210> 904

<211> 1147

<212> DNA

<213> Homo sapiens

<400> 904

| | | | | | | |
|------------|------------|------------|------------|-------------|-------------|-----|
| ggcacgagac | ccattgagca | gaaggaggcc | aggtgggaaa | gctcctggga | agagcagcca | 60 |
| gactggacac | tgggctgctt | gagtccttag | tcacaattca | gaattcctgg | gctccctggg | 120 |
| tgcattctat | cattccagtt | gaaagtttgc | ttccttccag | tcattgtggc | cttcattcta | 180 |
| ctctccttgc | ctctcatttc | agatgccatg | gtcatggatg | aaaagggtcaa | gagaagcttt | 240 |
| gtgctggaca | cggcttctgc | catctgcaac | tacaatgccc | actacaagaa | tcaccccaaa | 300 |
| tactggtgcc | gaggctatct | ccgtgactac | tgcaacatca | tcgccttctc | ccctaacagc | 360 |
| accaatcatg | tggccctgaa | ggacacaggg | aaccagctca | ttgtcactat | gtcctgcctg | 420 |
| aacaaagaag | acacgggctg | gtactggtgt | ggcatccagc | gggactttgc | cagggatgac | 480 |
| atggatttta | cagagctgat | tgtaactgac | gacaaaggaa | cctggccaat | gactttggtc | 540 |
| tgggaaagac | tatcaggcac | aaaaccagaa | gctgcaaggc | tcccaaagtt | gtccgcaagg | 600 |
| ctgaccgctc | caggacgtcc | attctcatca | tttgatact | gatcacgggt | ttgggaatca | 660 |
| tctctgtaat | cagtcatttg | acaaaaagga | ggagaagtca | aaggaaatga | agggttaggca | 720 |
| acactttgaa | gcccttctcg | cgtgtcctga | ctccaaagga | aatggctcct | actgaacaga | 780 |
| tgtgactgaa | gattttttta | atttagttca | taaagtgatg | ctacaacaga | ataatcacca | 840 |

```

tgacaactgg cccacacact cagagactga ttctgatctc ccaggaattc tgaagggtccc 900
tctatccttg acaacaatca tttgcagcca ggtagcaacg gcagtagtca gaggagctat 960
gatagaccac acccaagcaa ggctgccctc aaataacatc tcaagatctt agttcttatg 1020
cattccatca gtcagaagtg aagaagaggt ggagaatctg gattggggac caggaaatca 1080
cttgtatttt gttagccaat aaattcctag ccagtgttga atgaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaa 1147

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<210> 905
 <211> 1134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (418)..(418)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (803)..(803)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (816)..(816)
 <223> n equals a,t,g, or c

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<400> 905
accattgag cagaaggagg ccagggtggga aagctcctgg gaagagcagc cagactggac 60
actgggctgc ttgagtcctg agtcacaatt cagaattcct gggctccctg ggtgcattct 120
atcattccag ttgaaagttt gcttccttcc agtcatgtgg ctcttcattc tactctcctt 180
ggctctcatt tcagatgcca tggtcattga tgaagggtc aagagaagtt tgtgctggac 240
acggcttctg ccacttgcaa ctacaatgcc caytacaaga atcaccccaa atactggtgc 300
cgaggytatt tccgtgayta ctgcaacatc atcgcttctt ccctaacag caccaatcat 360
gtggccctga aggacacagg gaaccagctc attgtcacta tgcctgcct gaacaaanaa 420
gacacgggct ggtactggtg tggcatccar cgggactttg cmagggatga catggatttt 480
acagagctga ttgtaactga cgacaaagga accctggcca atgacttttg gtctgggaaa 540
gacctatcag gcaacaaaac cagaagctgc aaggctccca aagttgtccg caagctgacc 600
gtccaggac gtccattctc atcatttgca tactgatcac gggtttggga atcatctctg 660
taatcagtc tttgacaaa aggaggagaa gtcaaaggaa tagaagggtg ggcaacactt 720
tgaagccctt ctgcgtgtc ctgactccaa aggaaatggc tcctactgaa cagatgtgac 780
tgaagwtttt tttaatttag ttncataaag tgatgnctac aacagawtaa tcacccatga 840
caactggccc cacacctcag agactgattc tgatctccca ggaattctga aggacctct 900
atccttgaca acaatcattt gcagccaggt agcaacggcr gtatgcagag gagctatgat 960
agaccacacc caagcaaggc tgcctcctaa taacatctca agatcttagt tcttatgcat 1020
tccatcagtc agaagtgaag aagaggtgga gaatctkgat tggggaccag gaaatcactt 1080
gtattttgtt agccaataaa ttcctagcca gtgttgaatg aaaaaaaaaa aaaa 1134

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<210> 906
 <211> 632
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (537)..(537)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (579)..(579)

<223> n equals a,t,g, or c

<400> 906

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| tttgagcact | actgggtggt | tagcatgatt | gaggaaaaat | gatgggaata | agaagtggaa | 60 |
| gtggtctttg | tatcacaagt | tgaatttctc | actttgagta | gtagtgaagt | cactactgta | 120 |
| agagctggtc | agtgaatgtg | gttgcagcat | ggcctttggg | caagaagtaa | cccatTTAAC | 180 |
| taaaaccagc | tggttggccc | cactcagatt | tatcaaaggg | ttactgggtc | cctgggggtg | 240 |
| gatattgctt | atattagact | tagaatagca | tactgtttta | atattatatg | aactaaaatg | 300 |
| tttcttttaa | aaaagagtgg | tctgttaatg | gatttatgta | gtggtcaaga | atttagactt | 360 |
| cagagtcaaa | taaacctata | tcagtcctag | tcctacagtt | tactaattgt | gagatgkcaa | 420 |
| gcaagktttt | gaactcctct | aagcctctgk | tttcttatct | ataaattaat | aaatgaatga | 480 |
| atcgggttga | gtgaataatt | aagtaaaatc | ttaagacata | ctagttattg | gaactgngaa | 540 |
| actgggtttt | ttgggaatgg | gtttcacatt | tgggaagtng | aaataccact | ttctaaggt | 600 |
| ctggtttatc | tcaaattctct | atccaggcct | aa | | | 632 |

<210> 907

<211> 2036

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (521)..(521)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (687)..(687)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1799)..(1799)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1807)..(1807)

<223> n equals a,t,g, or c

<400> 907

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|------|
| gtctcaaaca | tgcacgtgta | cctttaggat | gaatttctgc | aattggatgt | gccaaggcca | 60 |
| gagcgtgtgc | atttgtggct | ttggttgaca | tcaccaagtc | gcccttcctg | gggcctgtgc | 120 |
| tggtgtactc | tgaggcgcga | ttgtgtgaaa | ggtgggctaa | ggtgcctgtt | cgaccacatc | 180 |
| ctcactggta | gactgggtca | ccacagtttt | ggaaggtga | gaaatgggtat | ctaaacatag | 240 |
| tttgaatttg | catttctttt | actggaagg | aggctgcgcg | tgtttcacat | cagagccacg | 300 |
| tgtgtttgtg | gttgttgaac | tttctctctt | ggattgctag | gagtgcctta | tgtattaggg | 360 |
| aagcagactt | ccctaatacg | tgataacgca | tgagataact | gtttccaagt | ttttgttatt | 420 |
| tgtcttttaa | atttgttttt | gcatttgtct | tttcactttg | atttttgcca | ggctggagtt | 480 |
| ttgatgttta | tgtggtcata | ggtgtgaata | ttttcttttg | nggcttctgg | attttgagac | 540 |
| acagtggcta | tagaaccact | atagccaaaa | gttatgtytg | cctttggytt | catatacttt | 600 |
| gctttgggtc | tgtcttcttg | actttattta | aaatagtaag | atatwcttac | tacatttttc | 660 |
| cattgcccac | agctggaagg | agattgnaat | tatcaccaaa | gatgaaaaac | taaggcatgt | 720 |
| tctcagcaga | ggcagattag | actttaagtt | agaggcttgt | ccttggtgca | gaggcctgtg | 780 |
| agcgaccggg | ccccacttgc | cctgcacacc | atggcgtgga | ttgtgggcag | tcacagggaa | 840 |
| gatctctggc | tttgcctggg | gctgggggtac | ggttcttaga | gtgccattct | agagtggcct | 900 |
| cgcgtactgg | taatgaacgc | ccatcaagtg | gccttgggaa | ttcatgagcc | ggatgatgat | 960 |
| gacttcgccg | gtgaaaagca | aatcccaaat | aggttggttt | ctgtgcattc | cagtcccaat | 1020 |
| ttctcttcca | agtaattatt | agatgtgcca | agcctgttac | gtttattact | tacagaattg | 1080 |
| kttttgtctg | tgtgagttta | ctgaggactt | aggggttggt | atgtgaggag | gggagccccc | 1140 |
| cttctyctgt | gggcactcta | gcactcttaa | taatcagtat | taaacaatgtt | gaaggccata | 1200 |

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aaggaaataa ctttctctta aaaacaagtt agagtcagtc ataaaactgt ttgcctagac 1260
cttgatcact taaaataaga tcttagatgt gatgtgtctt tgtggagtat ttctgtggc 1320
tcgggagggtg tgcagtagag tggggctctga gggacagtga ggggtgaagg aaagggtgga 1380
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aattcactgg ccgkcggtttt acaacgmcgt gactggcaaa accctggcgt taccacaactt 1920
aatcgcttg cagcacatcc ccctttccgc agctggcgta atagcgaaga ggccgcacc 1980
gatcgccctt cccaacagtt gcgcagcctg aatggcgaat ggcaaattgt aaagcg 2036

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<210> 908

<211> 2694

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (258)..(258)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (925)..(925)

<223> n equals a,t,g, or c

<400> 908

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gcgagggggg acagcgactc ccggcccgga caggagttgt tagtggcctg gaacaccgtg 120
agcaccggcc tgggtccgcc ggctgcgctg gggctgggtg cttcccgac cagcgggtgca 180
gtcccgccaa aggaagagga gctccggcg gcggtggagg ttctgarggg ccacgggcta 240
cactcggtcc tggargantg gttcstggag ktgctgcaga acgatctgca rgccaacatc 300
tyccctgart tctggaatgc catctccaa tgcgagaact ctgcggatga gccccagtg 360
cttttgctac tccttgacgc ttttggcctg ctggagagcc gcctggatcc ctacctgctg 420
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ggctgcgaga agaagtccac actatgttgc gcggagtcct gtctcttagc acccccagaa 540
ccttccaaga gatgatccag cgtctgtatg ggtgcttctt gagagtcctat atgcagagta 600
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cccgtcgccg gtactaccgg ctctgcgaga gcccgcctgtg tgcagggtgc agcagtgaca 720
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gccccgccag gcccgcatct cccgaggccg gcaacaccct gcgccgctgg cgctgcactg 1020
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ccgagacttc ccagactccc ggccagccat cgaggacctc aagtactgcc tggagaggac 1140
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gttcgggggtc tacgctgtca tcctgtccag tgagtctctgg ccgcccttca aggacgagaa 1860
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gctcaaggcc atgcggaccc tcagttggaa gcacaccctg ggcttggtga ccatggacgt 1980
ggagctggcc gaccgcacgc tgtctgtggc ggtcacccca gtacaggcgg tgatcttgct 2040
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cgtggcgctg ctgcgcgggc ggatgtccgt gtggctgcag cagggtgtgc tgcgtgagga 2160
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gcccccccg cgcggaggcg ctgccctgca ggtgctctcg tcctcccgtg ccagcccccg 2580
cccggccgtg tcccagaatg cactgctgag gagcatgccc acccccaccc ccgcagtgtg 2640
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<210> 909

<211> 810

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (731)..(731)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (733)..(733)

<223> n equals a,t,g, or c

<400> 909

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tgagggggaa ggtcttacgc atgcccatgc acttctcctt gtcgatgcar aggggtgttg 180
ccttgatggc gagctcgtgc tccagccggc acttggtcat gaccagcagc tgcagcgtgt 240
cctgtgtctc ccgcagccgc agcttgaggg tctgcagggt gtcgtcgatg gtgaacacct 300
cgttcaccag cttcaactgc gggatgtccc tgcacagctc catgttgggg cgccgggtcc 360
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tctgcagctt attcttcaca tccgtcacct cagagatgcg ggcgttgaag gccagggttg 540
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acttggccca ggtctcaggt acggagatcg tgccgtcggg ttctccatgc cgtggaagaa 720
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<210> 910

<211> 2298

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (4)..(4)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1653)..(1653)

<223> n equals a,t,g, or c

<400> 910

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gcaggacgca gaacgccgac ggyttctcca cctacgtgtg cctgggtgctg ctggtggcca      120
acattttgcg gatactcttc tggtttgaa ggcgtttga gtccccgctg ctgtggcaga      180
gcgccatcat gatcctgacc atgctgctga tgctgaagct gtgcaccgag gtccgtgtgg      240
ccaacgagct caacgccagg cgcgcctcct ttacagactt cgacccccac cacttctggc      300
agtggagcag ctctcgggac tacgtgcagt gcgtcctggc cttcacgggc gtggcgggct      360
acatcaccta cctgtccatt gactccgcc tgtttggga gacctgggc ttcttggtg      420
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<210> 911

<211> 928

<212> DNA

<213> Homo sapiens

<400> 911

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catgctgctg atgctgaagc tgtgcaccga ggtccgtgtg gccaacgagc tcaacgccag      180
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| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| gcagtggggg | tggggctggg | acgctgtttg | tgctcagcgg | ggacagccag | ggttgatctg | 840 |
| gccccgaggg | ttttggatgt | tttttaggatg | acataaaaaag | caagtgtttt | ccccaaaaaa | 900 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaa | | | | 928 |

<210> 912
 <211> 1433
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| aggagttgga | actcagtcct | ggtggaaaag | gaagtcgtgg | agggagggct | agggccgtgg | 120 |
| gggaactgct | ctgctgagcc | tcttcctcac | ctgctgcttc | ctaggactaa | cctgaaggct | 180 |
| aagggtaccag | gctgaagtca | gtgctcagaa | aaccaatcgt | cattcttttg | ggtttttttt | 240 |
| cttgaagagc | cactttctct | ttaccttggt | ctagcctggt | ggaggtaggg | tttctgcaat | 300 |
| tccaaaggcc | gtacacagcc | tctcaccatc | agaccacttt | ttaaggctct | tcgttcatac | 360 |
| ctagctcgaa | gattcacttc | ctcaggaagc | catttttagtt | acaaatctgg | gaaaacttaa | 420 |
| aatgctttca | ttgtgccatg | ttttctgttg | cagcttcagt | accgtacctt | gtggtcaggc | 480 |
| atacttacaa | gtttcttttt | acagtaaccc | cttgtggaca | tctaataaat | ggtcattatt | 540 |
| tttttagtact | agtttgtttt | cctgaacact | gtaagatctg | tgactgacgt | ttgatacctt | 600 |
| aaagcagtg | catataataa | ctaccacta | tttggtcttt | atttctgtca | gataaaaatg | 660 |
| ttctatgtag | tgtctacagt | catttttttt | ttaactagaa | tttagatttg | gaagtagttt | 720 |
| ttctattagt | tgatttgc | gaaatacaaa | attaggaaaa | ggcttattcc | acctcaacct | 780 |
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| atcacccctga | acttctagct | ttgcattgtg | aagtgaagcat | catgaagatg | agaaaatggt | 900 |
| gggagatcat | ttttgcaaag | ggcataaatag | tcggcattca | gatatgagtt | aactgcagag | 960 |
| ggaaaattgc | aagctgtcat | gttgcccttg | ttcctctcaa | ccttctggta | acctaacaa | 1020 |
| ctcctacagg | ttgtatgtga | aattgcaaga | tgattatata | gccctgttga | atttacaacc | 1080 |
| agatcttgct | ttcaaaccat | tattagccaa | gggttttgatt | ccacacctgt | gttcatggat | 1140 |
| tttttgggtat | tagacattgc | tgtaactctg | ttttcacttt | ttcatctggt | atcttggctc | 1200 |
| acttaaggga | gaaggtatca | gcagcctagg | accacttggg | ttctgttttt | atgtttcata | 1260 |
| gttcatggct | gataaaaatt | acctgtcctt | aggccgagtg | cagtgcctca | cacctgtaat | 1320 |
| cccagcactt | tgaggagccg | aggtgagtag | atcacctgag | atcaggaggt | cgagaccagc | 1380 |
| ctggacaaca | agagcaaaac | tccatctcca | aaaaaaaaaa | aaaaaaaaact | cga | 1433 |

<210> 913
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (350)..(350)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (376)..(376)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (386)..(386)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (404)..(404)
 <223> n equals a,t,g, or c

<400> 913

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aatgcagtta tctcatcatg gtcagtcctt ggggaagtgg gctgagaaat tacatgtgtt    180
ctattctcta ttttcattcc tattgtgacc ttcacaccga ctcaaaacct tccttttaga    240
tacttctgga tataaaaata tatgttaatt ttgggggttc acactcctga gtgaaaggca    300
gtgtcatcaa gtacgtgaat gccacgtccc taaatgtctt tctcgttctn ctcccacca    360
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<210> 914
 <211> 1299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1291)..(1291)
 <223> n equals a,t,g, or c

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<400> 914
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gacttgcatg gataatagag tgacatcctt caragacctc attcatgacc aagatgaaga    180
tgaggaggaa gaggaaggcc agagggttta tgctgggggc tcagagagaa gtggacagca    240
gattgttgcc cctcccagga agaaaagtcc caacgagctg gtggatgata tctttaaagg    300
tgccaaagag catggagctg tagctgtgga gcgagtgacc aagagccctg gagagaccag    360
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agctcacggt ggacaggtga acttggtatg ggaggaccat cgggacgagg actttgtgaa    660
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ccttagttgc atttcctggg tttttgtgat gatcaatgga cttaaatgaa aaaaaaata    1260
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<210> 915
 <211> 1669
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1424)..(1424)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1663)..(1663)
 <223> n equals a,t,g, or c

<400> 915
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 ctggctactgw tgtccttggtc ggggcctgtg gctttgcctc tcattccctg gtgaatgtca 180
 ggaaatagag ggctgagact aatttttata ggctctcaat tttctctgcw tggggacaag 240
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 ccattgccagt gccaccatta accccaagtc actagtggta gctacttctg actatgactg 780
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 accctttgcc tcagtgtgcc cagcaccaac ctggcacatg ctctattcat gttttccatg 1140
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 tctctcccat agctctgggt tcttagatct tggttggacg tttgttttct ccttagttgc 1560
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<210> 916
 <211> 1369
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1351)..(1351)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1353)..(1354)
 <223> n equals a,t,g, or c

<400> 916
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 cgtgtttgac tccaggtgga atcgacttgc ctgcgcctc aacctcatgg tggagaagca 180
 tctgaatgca cagctatggr agaaaatccc accagtgcct agtaccacct caccatctc 240
 cacacgtatt cctcaccgga caaactctgt gccgacatca caatgtggag tcagctatct 300
 ggcagcagcc accgtctcta catccccagt cctgtcttca tctacctgca tctcccaaa 360
 tagcaaatcg gtaccagctc atggaaccac actaaatgca cagcctgctg cttcaggggc 420
 gatggatcct gtgtgcagta tgcaatccag acaagtgtcc tcttcatcct catcccctc 480
 cagcctctct ggccttctct cggttccttc ctcccccatg tccaggaaac ctcagaaatt 540

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gaaatccagc aaatctttga ggcccaagga gtcttctggt aacagcacta actgtcaaaa 600
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ttaggaaaaa ctgtgtggct cactctgggc ctccctaccc ctcaacggta acatcttccc 780
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tgctgttcaa ctcccacggc agtttttccc actcacacac tcctctagac aaactcatag 1020
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<210> 917

<211> 1515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (69)..(69)

<223> n equals a,t,g, or c

<400> 917

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cacagaactg gggtcgggcc tccttgacat gcagatttcc acccagaaga cagagaagga 180
gccagtgtgc atggaatggg ctgggtgcaa agactgggtg cctgggagct gaggcagcca 240
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aaaaaaaaaa aaaaa 1515

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<210> 918

<211> 1404

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1351)..(1351)

<223> n equals a,t,g, or c

<400> 918

| | | | | | | |
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| cgagggttga | ccctactgtg | acacacctac | catgcggaca | ctcttcaacc | tcctctggct | 120 |
| tgccctggcc | tgcagccctg | ttcacactac | cctgtcaaag | tcagatgcca | aaaaagccgc | 180 |
| ctcaaagacg | ctgctggaga | agagtcagtt | ttcagataag | ccggtgcaag | accgggggtt | 240 |
| gggtgtgacg | gacctcaaag | ctgagagtgt | ggttcttgag | catcgagct | actgctcggc | 300 |
| aaaggcccg | gacagacact | ttgctgggga | tgtactgggc | tatgtcactc | catggaacag | 360 |
| ccatggctac | gatgtcacca | aggtcttttg | gagcaagttc | acacagatct | cacccgctctg | 420 |
| gctgcagctg | aagagacgtg | gccgtgagat | gtttgaggtc | acgggcctcc | acgacgtgga | 480 |
| ccaaggggtg | atgcgagctg | tcaggaagca | tgccaagggc | ctgcacatag | tgctctggct | 540 |
| cctgtttgag | gactggactt | acgatgattt | ccggaacgtc | ttagacagtg | aggatgagat | 600 |
| agaggagctg | agcaagaccg | tgggtccagg | ggcaaagaac | cagcatttcg | atggcttcgt | 660 |
| ggtggaggtc | tggaaccagc | tgctaagcca | gaagcgcgtg | ggcctcatcc | acatgctcac | 720 |
| ccacttggtg | gaggctctgc | accaggcccg | gctgctggcc | ctcctggtca | tcccgcctgc | 780 |
| catcaccccc | gggaccgacc | agctgggcat | gttcacgcac | aaggagtgtg | agcagctggc | 840 |
| ccccgtgctg | gatggtttca | gcctcatgac | ctacgactac | tctacagcgc | atcagcctgg | 900 |
| ccctaagtca | cccctgtcct | gggttcgagc | ctgcgtccag | gtcctggacc | cgaagtccaa | 960 |
| gtggcgaagc | aaaatcctcc | tgggggtcaa | cttctatgg | atggactacg | cgacctccaa | 1020 |
| ggatgcccgt | gagcctgttg | tcggggccag | gtacatccag | acactgaagg | accacaggcc | 1080 |
| ccggatgggt | tgggacagcc | aggyctcaga | gcacttcttc | gagtacaaga | agagccgcag | 1140 |
| tgggaggcac | gtcgtcttct | acccaacctt | gaagtccctg | caggtgcggc | tggagctggc | 1200 |
| ccgggagctg | ggcgttgggg | tctctatctg | ggagctggcc | agggcctgga | ctacttctac | 1260 |
| gacctgtctt | aggtgggcat | tgccggctcc | gcggtggacg | tggtcttttc | taagccatgg | 1320 |
| agtgagtga | caggtgtgaa | atacaggcct | ncactccgtt | tgctgtgaaa | aaaaaaaaaa | 1380 |
| aaaaaaaaaa | aaaaaaaaaa | aaaa | | | | 1404 |

<210> 919

<211> 2008

<212> DNA

<213> Homo sapiens

<400> 919

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| cgggggcttt | ctaacgggaa | aaactctact | aaagggttca | aaagctggag | ctccaccgag | 60 |
| gtggcgcccg | ctctagaact | agtggatccc | ccgggctgca | ggaattcggc | acgagctcgt | 120 |
| gccgaattcg | gcacgagtea | cagaacacat | ccatggctct | matgctcagt | ttggttctga | 180 |
| gtctcctcaa | gctgggwtca | gggcagtgcc | agggtgttgg | gccagacaag | cctgtccagg | 240 |
| ccttggtggg | ggaggacgca | gcattctcct | gtttcctgtc | tcctaagacc | aatgcagagg | 300 |
| ccatggaagt | gcggttcttc | agggggcagt | tctctagcgt | ggtccacctc | tacaggagcg | 360 |
| ggaaggacca | gccatttatg | cagatgccac | agtatcaagg | caggacaaaa | ctggtgaagg | 420 |
| attctattgc | ggaggggcgc | atctctctga | ggctggaaaa | cattactgtg | ttggatgctg | 480 |
| gcctctatgg | gtgcaggatt | agttcccagt | cttactacca | gaaggccatc | tgggagctac | 540 |
| agggtgcagc | actgggctca | gttccctctc | tttccatcac | gggatatgtt | gatagagaca | 600 |
| tccagctact | ctgtcagtc | tcgggctgg | tcccccgcc | cacagcgaag | tggaaaagg | 660 |
| cacaaggaca | ggatttgtcc | acagactcca | ggacaaacag | agacatgcat | ggcctgtttg | 720 |
| atgtggagat | ctctctgacc | gtccaagaga | acgccgggag | catatcctgt | tccatgcggc | 780 |
| atgctcatct | gagccgagag | gtggaatcca | gggtacagat | aggagatacc | tttttcgagc | 840 |
| ctatatcgtg | gmacctggyt | accaaagtac | tgggaatact | ctgctgtggc | ctattttttg | 900 |
| gcattgttgg | actgaagatt | ttcttctcca | aattccagt | gaaaatccag | gcggaactgg | 960 |
| actggagaag | aaagcacgga | caggcagaat | tgagagacgc | ccggaaacac | gcagtggagg | 1020 |
| tgactctgga | tccagagacg | gtcaccgga | agctctgcgt | ttctgatctg | aaaactgtaa | 1080 |
| cccatagaaa | agctccccag | gagggtgcct | actctgagaa | gagatttaca | aggaagagtg | 1140 |
| tgggtggctt | tcagagtttc | caagcaggga | aacattactg | ggaggtggac | ggaggacaca | 1200 |
| ataaaagggt | gcgcgtggga | gtgtgccggg | atgatgtgga | caggaggaag | gagtacgtga | 1260 |
| ctttgtctcc | cgatcatggg | tactgggtcc | tcagactgaa | tggagaacat | ttgtatttca | 1320 |
| cattaaatcc | ccgtttttat | agcgtcttcc | ccaggacccc | acctacaaaa | ataggggtct | 1380 |
| tcctggacta | tgagtgtggg | accatctcct | tcttcaacat | aaatgaccag | tcccttattt | 1440 |
| ataccctgac | atgtcggttt | gaaggcttat | tgaggcccta | cattgagtat | ccgtcctata | 1500 |
| atgagcaaaa | tggaactccc | agagacaagc | aacagtga | cctcctcaca | ggcaaccacg | 1560 |
| cccttctctc | ccaggggtga | aatgtaggat | gaatcacatc | ccacattctt | cttttaggat | 1620 |

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------|
| attaaggtct | ctctcccaga | tccaaagtcc | cgcagcagcc | ggccaaggtg | gcttccagat | 1680 |
| gaagggggac | tggcctgtcc | acatgggagt | caggtgtcat | ggctgccctg | agctgggagg | 1740 |
| gaagaaggct | gacattacat | ttagtttgct | ctcactccat | ctggctaagt | gatcttgaaa | 1800 |
| taccacctct | caggtgaaga | accgtcagga | attcccactct | cacaggctgt | ggtgtagatt | 1860 |
| aagtagacaa | ggaatgtgaa | taatgcttag | atcttattga | tgacagagtg | tatcctaattg | 1920 |
| gtttgttcat | tatattacac | tttcagtaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaamc | 1980 |
| tcgagggggg | gcccgttacc | caattcgg | | | | 2008 |

<210> 920

<211> 675

<212> DNA

<213> Homo sapiens

<400> 920

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
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| ctgtgggtgt | ctacgctcgg | ctaataaagc | atgcagttct | ccctctgcct | caccgctgtg | 120 |
| ttcctgctgc | agctggccgc | tgggatcctg | ggcttcgtct | tctcagacaa | ggctcgaggg | 180 |
| aaagtgaagt | agatcatcaa | caatgccatt | gtgcactacc | gagatgactt | ggatctgcag | 240 |
| aacctcattg | attttggcca | gaaaaaggta | tgggtcagcc | agtggctctg | gggactgtgg | 300 |
| gtaaaagtga | atgtcatccc | aagagatgcc | tcacctctca | tgcctgtggg | gctcttcatt | 360 |
| acctgccagg | taatggcttc | tgggaagggg | tttggcaaaa | aaagcacacg | tagcagagtg | 420 |
| ctttaaatgt | acttttaaag | acacagaaca | gtatatatag | taatctactg | tggtataaat | 480 |
| ggttactttac | agggggtgag | gaactgggca | gattcttgaa | tattacctct | tcaaaagtga | 540 |
| catttttaggc | tgggtccaaag | ggagtgaagt | atctcatttg | attgttcaca | gtcagctaca | 600 |
| gatccaactc | cttgttctac | tctttccccc | cttctcagtg | ctgcacttga | ctagactaaa | 660 |
| aaaaaaaaaa | aaaaa | | | | | 675 |

<210> 921

<211> 1162

<212> DNA

<213> Homo sapiens

<400> 921

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
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| ccagttccct | tccgcgtcct | tcggccctgg | ctctggctgc | ctggcggagg | tggggtagca | 120 |
| tttgtcattt | gcacactgct | ggctttatct | ttggggctgc | accccagggc | aacaaatgca | 180 |
| ggatgctctg | tcacccacat | gtccaccacc | atctggtttg | ccttttggct | actttgactt | 240 |
| tctccttaaa | tgcttctctg | gctgagcaaa | cattccacag | ccagcagagc | aatggagagt | 300 |
| tcattggccac | tcttcccagt | atcagcaagc | aatttggggg | gatcgttttg | aagcctcaga | 360 |
| ggaaagatgt | catcaggctt | cctgtggctt | tgtccttcag | catggggctc | ggcttgcttt | 420 |
| cacctgcctt | aggaagattt | ctggcttctg | agctctgata | tggggagaag | ataagggctg | 480 |
| ggatcctttga | gtctgcccct | agctgggtat | gtgcgtccgg | tgtgcgggcc | ttggagtttt | 540 |
| tggtaatgac | tcacttgtgc | tctttctggg | atctgtctcc | ctcccacatg | accccggtgg | 600 |
| gtccctgaat | gactgtttta | gagtacccat | gtgggttccc | tgagtcacag | caggggatgt | 660 |
| ttaataagga | ggttagcact | gagcttgggg | acgtgctgtc | acaccagcag | gacgtgcag | 720 |
| gaaggagcag | gctacttcct | ttcttgacgt | gcaaataact | cgtataggct | aatcaacagg | 780 |
| cttataagtt | aaaagggcta | ccgctcggcc | ccttggggat | tccatcccct | cctctgtaac | 840 |
| ttggagatgt | ttgtttctgc | tcagactca | gaggggttgc | atgaagagtg | gtgggactga | 900 |
| gttgagaagc | ttatcccttc | gctgggtggg | aggtttctaa | ttgccctgtt | ctttggggga | 960 |
| tccttaagtc | cagcttccag | gtgggggcag | cgataggacc | aagttctcct | agtagtctct | 1020 |
| gggaagccac | ttgagggaa | ctgccgtgca | tgcccatgca | cccattggtc | ttctgccagc | 1080 |
| agggcctgta | ggctgtgcca | tgttccatgt | ccttctgggt | tcttggggga | gaaggaagct | 1140 |
| gttgaaaaaa | aaaaaaaaaa | aa | | | | 1162 |

<210> 922

<211> 884

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (873)..(873)

<223> n equals a,t,g, or c

<400> 922

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acctctgtcc ccacccttac ctccccccac ataccgcccc ctgcttgggt tccccccca 180
gcgcttgccg ctgctcccg cctgtcccc acagcctcct cctcccatc tccatcacca 240
gggaatgccc cggttccac aggggtcccc agatgcctgt ttttctcag accatacttt 300
ccagtcggat caattctatt gccattcaga tgtccctca tcagcccatg caggtttctt 360
cgctgaagac aattttatgg ttggctccta gctgcctatg cccttcttcc ccacaccccg 420
ttatcagcgg cctgccccag tggtagatag ggggttttggc aggtatcgtc cccgtggccc 480
ctatacgccc tggggacagc ggccctcgacc ttcaaagaga agggccccag ccaatcctga 540
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ggagtccatg cctcgtcttc cttttgttca ttgctgttac caagaaagcc aaggaaagac 720
agcctgactc attcttcttg gctgcagcct ctccccact tctgggagt gaccagcgt 780
tattcctgcc tctcactcc tattctcttt gcctttgtgt aaaaataaaa tggaaataaa 840
caagttgcac agaaaaaaaa aaaaaaaaaa aancccaagg gggg 884

```

<210> 923

<211> 1265

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (766)..(766)

<223> n equals a,t,g, or c

<400> 923

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atagccatgg acgtgatgga acgctgcac cacttggtgt cagataaaaa tctgcaaatc 180
cgctgaaggt tcttggtatg gctggatctg tgtgtggttg ttcttcagtc ccacaaaaac 240
cagctgcttc ccttggtctc tcaggcctgg ccctcgctcg ttcaccgact cacacgggac 300
gcccccttgg cagtgccttag agccttcaag ttttacgtac cctgggaagc aagtgtggtg 360
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cccaggcccc catcagtgcc agggctggac cagtttactc gcacacgctg gccttcaagt 480
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gtgacctgaa taaagtggct gatgcctgct tgatttacct cagtgtcaaa cagccgtgga 600
aattacaaga ggctgccagg agcgtcttcc tccacttgat gaagggtggac ccagactcca 660
cctggttcct cctgaacgag ctttactgcc ccgtgcagtt cacacctccc caccagcgc 720
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cagcagagaa ggtgaattag ttagccaatc gatttataaa ttgatcgatc acacaactgc 960
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tcgag 1265

```

<210> 924

<211> 1012

<212> DNA

<213> Homo sapiens

<400> 924

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acgcgtccgg aagtgggaga ggtcgcagcc ccgccttctc tacacaggaa agctcagtg 60

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cctgtgtgct ggcccccaa agattgcagc caaatgtggt ctcatccttg cctgccccaa 180
aggattcaaa tgctgtggtg acagctgctg ccaggagaac gagctcttcc ctggccccgt 240
gaggatcttc gtcatcatct tcctgggtcat cctgtccgtc ttttgcatct gtggcctggc 300
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gccccctggaa ctgccctcca tcatccccc agagagggtg attctgaagc ccagcctggg 420
cccaactccc acagagccac cccctcccta cagcttcagg cctgaagaat ataccgggga 480
tcagaggggc attgacaacc cggccttctg agtcacctcc tgcttggaat cttgccatca 540
gcaacctcct cccagtgccc tcctggatca agctagagac tgctggcacc ccaggaatgt 600
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tcttgactgg acagccagct ctgagatttt atcagggcac ttctatacct gtgggacatt 900
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<210> 925

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (528)..(529)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (531)..(532)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (537)..(537)

<223> n equals a,t,g, or c

<400> 925

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gtttatgtga tggactatgt ttattgattt gcatatgttg aaccagcctt gcatctcagg 180
gatgaagcca actcgatcgt tgtggataag ctttttgatg tgctgctgga tttggtttgc 240
caatatTTta ttgaggattt ttgcatcagt gttcttcagg gatattggtc taaaattctc 300
ttttttttgt tgtgtctctg ccaggctttg gtatcaggat gatgctggcc tcataaatga 360
gttagggagg attccctctt tctattgatc agaatagttt cagaaggaaat ggtaccagct 420
cttctttgta cctctggtag aatttgggtg kgaatctatc ttgkcctgga atatttttgg 480
ggttggaact caaaaaaaaa aaaaaaaaaa tcaaaaaaaaa aaaaaaanna nnaaaanaa 539

```

<210> 926

<211> 754

<212> DNA

<213> Homo sapiens

<400> 926

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ctacagagac gcggacccca gacatgagga ggctcctcct ggtcaccagc ctggtggttg 180
tgctgctgtg ggaggcaggt gcagtcccag caccgaaggt ccctatcaag atgcaagtca 240
aacactggcc ctacagagcag gaccagaga aggcctgggg cgcccgtgtg gtggagcctc 300
cggagaagga cgaccagctg gtggtgctgt tccctgtcca gaagccgaaa ctcttgacca 360
ccgaggagaa gccacgaggc accaaggcct ggatggagac cgaggacacc ctgggcccgtg 420

```

```

tcctgagtcc cgagcccgac catgacagcc tgtaccaccc tccgcctgag gaggaccagg 480
gcgaggagag gccccggttg tgggtgatgc caaatcacca ggtgctcctg ggaccggagg 540
aagaccaaga ccacatctac caccgccagt aggggtccca ggggccatca ctgccccgc 600
cctgtcccaa ggcccaggct gttgggactg ggaccctccc taccctgccc cagctagaca 660
aataaacccc agcaggccgg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 754

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<210> 927

<211> 667

<212> DNA

<213> Homo sapiens

<400> 927

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ggcacgagca ctgcagctcc ctgagcactc tctacagaga cgcggacccc agacatgagg 60
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gcaccaagg tccctatcaa gatgcaagtc aaacactggc cctcagagca ggaccagag 180
aaggcctggg gcgcccgtgt ggtggagcct ccggagaagg acgaccagct ggtggtgctg 240
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tggatggaga ccgaggacac cctgggcccgt gtcctgagtc ccgagcccga ccatgacagc 360
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ccaaatcacc aggtgctcct gggaccggag gaagaccaag acacatctac caccgccagt 480
aggggctcca ggggccatca atgccccgc cctgtcccaa ggcccaggct gttgggactg 540
ggaccctccc taccctgccc cagctagaca aataaacccc agcaggccgg aaaaaaaaaa 600
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaa

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<210> 928

<211> 2025

<212> DNA

<213> Homo sapiens

<400> 928

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cactgtggcg gggctctttc cccgtttcgc ctcagctacc cctcagctcc ggtagtccgc 180
agtccggggt cgtcgccgtt tggggcgga gctgctcggc cccgcgcggc tccccgtcgc 240
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tctgaagcgg acctggccgc tggaggtgcc cgagacggag ccgacgctgg ggcatttgcg 360
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gattgtttct ggggacttga tatgtttgat tctcaagat gacattccag cgcctaatat 540
accttcattc acagattcag agcattcttc actccagaat aatgagcaac cctctttggc 600
caccagctcc aatcagacta gcatrcagga tgaacaacca agtgattcat tccaaggaca 660
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gaaagggcgg tttgtgatgc tccgtgccatc gtcaactcac accattccat tctatcccaa 1380
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tcctggggag acgcccagcc agtttccctc actgagacca cgctttgatc cagttggccc 1560
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tagaccagc aggggtcggc caactgatgg ccggctgtca ttcattgtat tgatttgtaa 1680
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| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| tgctgatctc | gagtggtatt | ttctgattgt | ggtggtgaga | gttgactcc | cagaaacctt | 1800 |
| taaagagata | catttatagc | cctaggggtg | gtatgaccca | aaggttcctc | tgtgacaagg | 1860 |
| ttggccttgg | gaatagttgg | ctgccaatct | ccctgctctt | ggttctcctc | tagattgaag | 1920 |
| tttggtttct | gatgctgttc | ttaccagatt | aaaaaaaaag | gtaaattaaa | aaaaaaaaaa | 1980 |
| aaaaaactyg | agggggggccc | sggaccaaat | tsccttatag | ggggc | | 2025 |

<210> 929

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 929

| | | | | | | |
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| aaagaccagc | tggtgtatcc | tcttctggct | tttaccgcgac | aagcactgaa | cctaccagat | 120 |
| gtatttgggt | tggtcgctct | cccattggaa | ctgaaactac | ggatcttccg | acttctggat | 180 |
| gttcgttccg | tcttgtcttt | gtctgcggtt | tgctcgtagc | tctttactgc | ttcaaatgac | 240 |
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| gacacagatt | ggaagactgt | acaggaagag | gcacatacaa | agaaaaaat | ccccgaaagg | 360 |
| gcgggtttgt | atgctcctgc | catcgtaaac | tcacaccatt | ccattctatc | ccaaccctt | 420 |
| gcaccctagg | ccatttcccta | gctcccgctt | tcctccagga | attatcgggg | gtgaatatga | 480 |
| ccaaagacca | acacttcctt | atgttgagga | cccaatcagt | tcactcattc | ctggctcctg | 540 |
| ggagacgccc | agccagtttc | ctccactgag | accacgcttt | gatccagttg | gcccacttcc | 600 |
| aggacctaac | cccactctgc | cagggcgagg | cggccccaat | gacagatttc | ccttttagacc | 660 |
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| ttctggagct | ccatttgttt | ttgtttctaa | actacagatg | tcaactcctt | ggggtgctga | 780 |
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| gatacattta | tagccctagg | ggtggtatga | cccaaagggt | cctctgtgac | aaggttggcc | 900 |
| ttgggaatag | ttggctgcca | atctccctgc | tcttggttct | cctctagatt | gaagtttgtt | 960 |
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<210> 930

<211> 1006

<212> DNA

<213> Homo sapiens

<400> 930

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| gggtgcggt | gcagctcggg | gcctgctgcc | tggagatgag | gacgctgggt | gagctcgggc | 120 |
| cctgggctgg | ggactttggg | cctgacctgc | tgctcaccct | gctcttccct | ctcttcctgg | 180 |
| cgacgggggt | caccttgagc | ggggcctcgg | ccaacccac | tggttccttg | caggagtcc | 240 |
| tcatggccga | gcagtctctg | cctggcacgc | tggtgaagct | ggcgccacag | gggctgggca | 300 |
| tgcaaggccg | ctgcaccctg | aygcgcctct | gctgggcctg | ggagctcagt | gacctgcacc | 360 |
| tgctgcagag | cctcatggcc | cagagctgca | gctcgccct | gcgcacatcc | gtgccccacg | 420 |
| gggcgcttkt | ggaggccgcc | tgacaccttt | gtttccatct | gacctcctg | cacctgcggc | 480 |
| acagtccctc | sgcctacagc | gggcygctg | tggtctgtgt | ggtcaccgtc | ayggcctaca | 540 |
| cggccggccc | ttacgtctgc | ttcttcaacc | ctgccctggc | cgctctgtga | cctttgcctg | 600 |
| ctcggggacac | accttactgg | agtacgtgca | ggtgtactgg | ctgggcccct | tgacagggat | 660 |
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| acccagaccc | ctgcaaagg | gtccagtgtc | cgggagcctg | ggcgagtggt | tggtgagggg | 840 |
| ccacattcca | gctgagtggc | cttgcctctg | gtgagccccg | tgcgagggcc | ctgctttag | 900 |
| ctggaccctg | gaaccttctg | tagctaagag | ggaatcctgg | ccccctcccc | agaagccatt | 960 |
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<210> 931

<211> 3306

<212> DNA

<213> Homo sapiens

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<211> 2194

<212> DNA

<213> Homo sapiens

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<220>
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WO 02/102993

PCT/US02/08123

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<211> 1940

<212> DNA

<213> Homo sapiens

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1940

<210> 934

<211> 1315

<212> DNA

<213> Homo sapiens

<400> 934

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| ggtggtgaat | gtggccagcg | agtgcggctt | cacagaccag | cactaccgag | ccctgcagca | 240 |
| gctgcagcga | gacctggggc | cccaccactt | caacgtgctc | gccttcccct | gcaaccagtt | 300 |
| tgcccaacag | gagcctgaca | gcaacaagga | gattgagagc | tttggccgcc | gcacctacag | 360 |
| tgtctcattc | cccatgttta | gcaagattgc | agtcaccggt | actggtgccc | atcctgcctt | 420 |
| caagtacctg | gcccagactt | ctgggaagga | gcccacctgg | aacttctgga | agtacctagt | 480 |
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| aacaaatagg | aactcctgyc | caatgagagc | tcttgaccag | tgaatcacca | gccgatacga | 840 |
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| aaggcttctg | taaactggga | ccaatgatta | cctcataggg | ctgttgtgag | gattaggatg | 960 |
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| ttcattacaa | aagaaatgca | agttcattgt | aacaatccaa | acaatacctc | acgatataaa | 1200 |
| ataaaaaatg | aagtatcctc | ctcaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1260 |
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<210> 935

<211> 1138

<212> DNA

<213> Homo sapiens

<400> 935

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| cttttcttcc | tggaaaagcc | gtagaaagga | cacctggaca | tgctgtctgc | acaggttgtc | 420 |
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| tttgtccctt | tgcttgctac | ttggagatgt | agagaaaagct | aatgacatt | ttcacgggtga | 900 |
| tgacacaata | tcaccttctg | cttttgcaca | cttggctttg | tgtcaaaata | gatggaaagg | 960 |
| gttcattttg | tctggtgctc | tactgtttaa | tttgatctgg | tgtgtgacta | aagcaagaca | 1020 |
| aatagtattt | ttaatgaaac | catttaataa | cctctggtag | cttagagtgc | aaggcattgg | 1080 |
| aaaaatgcaa | ttaaaggatg | cctagatgta | aacaaaaaaa | aaaaaaaaag | gcggccgc | 1138 |

<210> 936

<211> 314

<212> DNA

<213> Homo sapiens


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<400> 936
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ttcccagggg gatggggagc tttctgcacc cccagtggca tctcctcatc acgttctgtg    180
ccgtccttgg gaaaggcctg cattctgac cttccaggcc ctccgagcat ggagggggcac    240
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aaaaaaaaaa aagg                                     314

<210> 937
<211> 5811
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2809)..(2809)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2827)..(2827)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (5787)..(5787)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (5803)..(5803)
<223> n equals a,t,g, or c

<400> 937
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| | | | | | | |
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| gagctcaagc | acaaaggtgg | ccatgcttcc | attgatgcca | ataaagaggt | ttatgcaggt | 1680 |
| gagcaccaca | taggtctgtc | tgggcacgga | gaagaagaag | gaggctgggt | acatgagcgg | 1740 |
| tgtgatcgac | cagccataca | gtagtagcaa | cagcaggaga | gcaggcaggt | tggcaggggc | 1800 |
| cacatatgcc | ctctgctgga | agggcagaaa | gatgagcacc | acgatgcatg | ctggcaccac | 1860 |
| gtagttacac | atgtcccaga | gaaagtgtcc | aagccagtag | aggggtggggg | acaggccccc | 1920 |
| catgagctgc | aggtgcttgg | ctcgggtgac | tcgctcctca | atgaggacaa | gagtgaagct | 1980 |
| ggccggggaca | aaggacatgg | caaagaccac | acagatggag | acgaggacgt | ccaccgagga | 2040 |
| ggccatcagt | gcaccctcag | acagctgctc | cttgggtgagg | ttcaaggggt | ggttgagtgt | 2100 |
| ggtgatgctg | tgggcgtggc | ggggcggggc | tgggggcagg | tgagcacgga | ggattgcgtt | 2160 |
| gctggctcgg | ttgacaaagg | ccaccatgga | gtgccagcct | ttgtttgtga | accagatctt | 2220 |
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| gaggggcccc | ccaggcaggg | gactcagcag | cgcccacaac | tcctccactg | agcggcccaa | 2340 |
| ctcttggccc | gagggcaggg | ctgggtctcg | gccccccagc | gagaagcctc | cgtatctgac | 2400 |
| ctcattcacc | cacttcttag | tcttcaggcc | ctggcgcaac | aggcgcggtt | aggtcttgac | 2460 |
| caggaagtca | gacaggttcc | ggcctgtcag | gttctgaacc | acttccccag | agccggtcac | 2520 |
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| cactgggggc | tcctccagtc | ctgcctcctg | cagcagcgcc | tcgagcagcc | gggcacgtcc | 2760 |
| aggggtcccc | ggggcgctct | cactgggcga | acaggacgcg | gcgccccccc | cccccccccc | 2820 |
| ccccccnccg | cttgagaagc | agggcctgga | gctgtggcg | ggtcagtgcc | cagccctgta | 2880 |
| cccgcccac | ggcgcttggc | ccagagccct | ggtcagctct | tggggctgac | ccagctgggt | 2940 |
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| gaacaggaag | accacgccc | ggtggctgta | ggggaggatg | tcycccagct | tgagcaccag | 4680 |
| aaccagcagy | gcggcgctga | gcaggaaggg | cccaggcgag | ctgaggaacc | agcctagcca | 4740 |
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| ccgcaccacg | gccttctactg | tcagtgtcac | ggagtagatc | caggccagcg | tcaggaagag | 4860 |
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| ctccaccagg | tcttgaggt | acacgaagcc | gccccacacg | tagcgcaggt | cggtcagggg | 5040 |
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| gtcaatgtcc | atgctgattt | tgatgctcac | gtgccggggc | ccaggctctg | ggttgggtgc | 5160 |
| tctgtgggg | ctgaagagtc | ctcaggctcc | aagaagacga | cgccggccca | gaatcgatgt | 5220 |

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<210> 938

<211> 1012

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (19)..(19)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (956)..(956)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (970)..(970)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (981)..(981)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (989)..(989)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (999)..(999)

<223> n equals a,t,g, or c

<400> 938

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tttttgatag aacaatttgt ttctctttga gtatatacct agtaatggga ttgctgggat 180
gaatggtagt tctattttta gttctktgag aaatctccaa actgctggaa aacaagtttt 240
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tggaawtct catgagcatt ggctgaagca gtttctctkt tctgaaatac cctgacctc 420
cgtacctagc taggcttttc tccaggcagc atttatgagg ccggtgtgtg ctgagtgctc 480
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atttgagaat gtaggcctc cagggaattg tttgtatcca actacatgat ttagggggca 780
caaaaatttc tcctggcccc tgtgagagtc agagctgaga agcatcgaga aagtgtagct 840

```

```

ctgggcgtgg ataactaatc agactgcata aatgacaaaa gccctctcat cccacagcag 900
gttattggga gtcgtacctt gacttcagtt catTTtTgTc acatagacca aaaagnaaag 960
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```

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<210> 939
<211> 734
<212> DNA
<213> Homo sapiens

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<400> 939
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gtacttgagc ctgctgtctac agccatgcct gaagatgcag ccccttctct tcttctctgtc 180
ccaccaaata tgaccagctc taggttccat tacttctgga ctttgcctca aataaaactt 240
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caggagccag agaggagaga gagatttact ggtgagagtt gtaggtggga attgaaagcc 360
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kttaaaaatat gtaactaacc tgcacgttgt gcacatgtac cctaaaactt caagtatata 480
taaararaga aagaactgst gatacacata tcatgaaaaa agaccaaata aaataaaaaa 540
ataaaaaata ataaaaataa taaaatatgt ccacaaatgc tttgatgttc cttgtttct 600
tgatctgtat gctagcaaca caggttcatt ccgtttgtga aaattcattg agctgtgtct 660
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<210> 940
<211> 796
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (4)..(4)
<223> n equals a,t,g, or c

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<400> 940
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ttggttcctt attgcctctc cataatagaa aaactcttta atgagctctc tttttgtttt 180
tcaaatcaga tatgcaaaga agctcataac aatttttttt aaaaatgcaa aacaagaatc 240
tccaattatg ggagcaaaat cttcagcttc tgggttcctg tctcactgag gaaatggatt 300
tgaaatggca aggaggaaat gaggaggcaa actttcatgt ctatttttagt tttccaatgc 360
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ctacactttt tcaaaatatg actccccagc ttataacaag aataatagca aacatcactt 540
tattaagcaa ttactatgta aaagacactt agtgcttagc acacactgga aatattgttg 600
actggctata ttttccccag aaatcccat tctgaaagcc tattacaaag aaataaaatc 660
atcagtataa caaaggagtg tgtgtgtgtg tgggtgtgag tgtgtgtggg tgtgagtgtg 720
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tgtaagtgca cacacg 796

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<210> 941
<211> 1037
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (12)..(12)
<223> n equals a,t,g, or c

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<400> 941

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| accttttcagc | ttctccaggc | ccccaatcct | gcttgacccc | agcttgggaa | cgagacactg | 120 |
| ctgagctgga | agacttcgcg | ggccacaggc | acagccttcc | tgctgctggc | ggcgctgctg | 180 |
| gggctgcctg | gcaacggctt | cgtgggtggtg | agcttggcgg | gctggcgggc | tgcacggggg | 240 |
| cgaccgctgg | cgccacgct | tgtgctgcac | ctggcgctgg | ccgacggcgc | ggtgctgctg | 300 |
| ctcacggcgc | tctttgtggc | cttcctgacc | cggcaagcct | ggccgctggg | ccaggcgggc | 360 |
| tgcaaggcgg | tgtactacgt | gtgcgcgctc | agcatgtacg | ccagcgtgct | gctcaccggc | 420 |
| ctgctcagcc | tgcagcgctg | cctcgcggtc | acctgcccct | tcctggcgcc | tcggtgcgca | 480 |
| ggccggccct | ggcccgccgc | ctgctgctgg | cggctctggct | ggccgcccctg | ttgctcgccg | 540 |
| tcccggccgc | cgtctaccgc | cacctgtgga | gggaccgctg | atgccagctg | tgccaccctg | 600 |
| cgcgggtcca | cgcccgccgc | cacctgagcc | tggagactct | gaccgcttct | gtgcttccct | 660 |
| tcgggctgat | gctcggtgc | tacagcgtga | cgtgggcacg | gctgcggggc | ggccgctggg | 720 |
| gctccgggcg | gcacggggcg | cgggtggggc | ggctggtgag | cgccatcgtg | ccttcttcgg | 780 |
| cttgctctgg | gccccctacc | acgcagtcaa | ccttctgcag | gcggtcgcag | cgctggctcc | 840 |
| accggaagg | gccttggcga | agctggggcg | agccggccag | gcggcgcgag | cggaactac | 900 |
| ggccttggcc | ttcttcagtt | ctagcgtcaa | cccgggtctc | tacgtcttca | cgctggaga | 960 |
| tctgctgcc | cgggcaggtc | cccgtttcct | cacgcggctc | ttcgaaggct | ctggggaggc | 1020 |
| ccgagggggc | ggccgct | | | | | 1037 |

<210> 942

<211> 1410

<212> DNA

<213> Homo sapiens

<400> 942

| | | | | | | |
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| agggtgctgcg | gatggcaatc | ctgctgtctt | actgctctat | cctgtgtaac | tacaaggcca | 120 |
| tcgaaatgcc | ctcacaccag | acctacggag | ggagctggaa | attcctgacg | ttcattgatc | 180 |
| tgggttatcca | ggctgtcttt | tttggcatct | gtgtgctgac | tgatctttcc | agtcttctga | 240 |
| ctcgaggaag | tgggaaccag | gagcaagaga | ggcagctcaa | gaagctcatc | tctctccggg | 300 |
| actggatggt | agctgtgttg | gcctttcctg | ttggggtttt | tgttgtagca | gtgttctgga | 360 |
| tcattttatgc | ctatgacaga | gagatgatat | accggaagct | gctggataat | tttatcccag | 420 |
| ggtgctgtaa | tcacggaaatg | cacacgacgg | ttctgcccct | tataattaatc | gagatgagga | 480 |
| catcgcacca | tcagtatccc | agcaggagca | gcggacttac | cgccatatgt | accttctctg | 540 |
| ttggctatat | attatgggtg | tgctgggtgc | atcatgtaac | tggcatgtgg | gtgtaccctt | 600 |
| tcctggaaca | cattggccca | ggagccagaa | tcattcttct | tgggtctaca | accatcttaa | 660 |
| tgaacttctc | gtacctgctg | ggagaagtgc | tgaacaacta | tatctgggat | acacagaaaa | 720 |
| gtatggaaga | agagaaagaa | aagcctaata | tggaaatgaga | tccaagtcta | aacgcaagag | 780 |
| ctagattgag | ccgccattga | agactccttc | ccctcgggca | ttggcagtgg | gggagaaaaag | 840 |
| gcttcaaagg | aacttgggtgg | catcagcacc | cccctcccc | aatgaggaca | ccttttatat | 900 |
| ataaatatgt | ataaacatag | aatacagttg | tttccaaaag | aactcaccct | cactgtgtgt | 960 |
| taaagaattc | ttcccaaagt | cattactgat | aataacattt | tttccttttc | tagttttaaa | 1020 |
| accagaattg | gaccttggtg | ttttattttg | gcaattgtaa | ctccatctaa | tcaagaaaga | 1080 |
| ataaaaagttt | attgcacttc | tttttgagaa | mtatgttaaa | gtcaaagggg | catatataga | 1140 |
| gtaaggcttt | tgtgtattta | atcctaaaag | tggtgttaat | catgaacctc | ggccaccatg | 1200 |
| gggacctgag | agggaagggg | acagatgttt | ctcattgcat | aatgtcacag | ttgcctcaaa | 1260 |
| tgagcaccat | ttgtaataat | gatgtcaatt | tcatgaaaag | cctgagtgtg | ttgcatctct | 1320 |
| tgatttaatc | atgtgaaact | tttcctagat | gcaaatgctg | actaataaag | acaaagccac | 1380 |
| cctgaaaaaa | aaaaaaaaaa | ggcgggccgc | | | | 1410 |

<210> 943

<211> 1796

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (417)..(417)

<223> n equals a,t,g, or c

<400> 943

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| tcgacccacg | cgcccgccag | attctggagg | cgaagaacgc | aaagctgaga | acatggacgt | 60 |
| taatatcgcc | ccactccgcg | cctgggacga | tttcttcccg | ggttccgac | gctttgcccg | 120 |
| gccggacttc | agggacattt | ccaaatggaa | caaccgcgta | gtgagcaacc | tgctctatta | 180 |
| ccagaccaac | tacctgggtg | tggtgcat | gatgatttcc | attgtggggt | ttctgagtc | 240 |
| cttcaacatg | atcctgggag | gaatcgtggt | ggtgctggtg | ttcacagggt | ttgtgtgggc | 300 |
| agcccacaat | aaagacgtcc | ttcgccggat | gaagaagcgc | tacccacga | cgttcgttat | 360 |
| ggtggtcatg | ttggcgagct | atttccttat | ctccatgttt | ggaggagtca | tggtctntgt | 420 |
| gtttggcatt | acttttcctt | tgctgttgat | gtttatccat | gcatcgttga | gacttcggaa | 480 |
| cctcaagaac | aaactggaga | ataaaatgga | aggataggtt | gaagaaggac | accgatgggc | 540 |
| atgtccctgga | tccttagaac | agcaggaaga | aggcatcaac | agactcactg | actatatcag | 600 |
| caaagtgaag | gaataaacat | aacttacctg | agctaggggt | gcagcagaaa | ttgagttgca | 660 |
| gcttgccctt | gtccagacct | atgttctgct | tgctgttttg | aaacaggagg | tgacacgtacc | 720 |
| acccaattat | ctatggcagc | atgcatgtat | aggccgaact | attatcagct | ctgatgtttc | 780 |
| agagagaaga | cctcagaaac | cgaagaaaa | ccaccaccc | cctattgtgt | ctgaagtttc | 840 |
| acgtgtgttt | atgaaatcta | atgggaaatg | gatcacacga | tttctttaag | ggaattaaaa | 900 |
| aaaataaaag | aattacggct | tttacagcaa | caatacgatt | atcttatagg | aaaaaaaaaa | 960 |
| tcattgtaaa | gtatcaagac | aatacagata | aatgaaaagg | ctgttaaagt | agatgacatc | 1020 |
| atgtgttagc | ctgttcctaa | tcccctagaa | ttgtaatgtg | tggtatataa | attagttttt | 1080 |
| attattctct | taaaaaatcaa | agatgatctc | tatcactttg | ccacctgttt | gatgtgcagt | 1140 |
| ggaaactggg | taagccagtt | gttcatactt | cctttacaaa | tataaagata | gctgttttagg | 1200 |
| atattttgtt | acatttttgt | aaatttttga | aatgctagta | atgtgttttc | accagcaagt | 1260 |
| atgtgttgca | aacttaattg | cattttccct | aagatgggta | cagctatgta | acctgtatta | 1320 |
| ttctggacgg | acttattaaa | atacaaacag | acaaaaata | aaacaaaact | tgagtttctat | 1380 |
| ttaccttgca | cattttttgt | tggtacagtg | aaaaaaatgg | tccaagaaaa | tggttgccat | 1440 |
| ttttgcattg | tttcgttttt | aactggaaca | tttagaaaga | aggaaatgaa | tggtgcatttt | 1500 |
| attaattcct | taggggcaca | aggaggacaa | taatagctga | tcttttgaaa | tttgaaaaac | 1560 |
| gtcttttagat | gaccaagcaa | aaagacttta | aaaaatggta | atgaaaatgg | aatgcagcta | 1620 |
| ctgcagctaa | taaaaaattt | tagatagcaa | ttgttacaac | catatgcctt | tatagctaga | 1680 |
| cattagaatt | atgatagcat | gagtttatac | attctattat | tttctctccc | tttctcatgt | 1740 |
| ttttataaat | aggtaataaa | aaatgttttg | cctgccaaaa | aaaaaaaaaa | aaaaaa | 1796 |

<210> 944

<211> 2136

<212> DNA

<213> Homo sapiens

<400> 944

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| gccgccagat | tctggaggcg | aagaacgcaa | agctgagaac | atggacgtta | atatcgcccc | 120 |
| actccgcgcc | tgggacgatt | tcttcccggg | ttccgatcgc | tttgcccggc | cggacttcag | 180 |
| ggacatttcc | aaatggaaaca | accgcgtagt | gagcaacctg | ctctattacc | agaccaacta | 240 |
| cctggtgggt | gctgccatga | tgatttccat | tggtgggttt | ctgagtcctt | tcaacatgat | 300 |
| cctggggagga | atcgtggtg | tgctggtgtt | cacagggttt | gtgtgggcag | cccacaataa | 360 |
| agacgtcctt | cgccggatga | agaagcgcta | ccccacgacg | ttcgttatgg | tggtcatgtt | 420 |
| ggcgagctat | ttccttatct | ccatgttttg | aggagtcagt | gtctttgtgt | ttggcattac | 480 |
| ttttcctttg | ctgttgatgt | ttatccatgc | atcgttgaga | cttcggaacc | tcaagaacaa | 540 |
| actggagaat | aaaatggaag | gaatagggtt | gaagaggaca | ccgatgggca | ttgtcctgga | 600 |
| tgccctagaa | cagcaggaag | aaggcatcaa | cagactcact | gactatatca | gcaaagtga | 660 |
| ggaataaaca | taacttacct | gagctagggt | tgacagagaa | attgagttgc | agcttgccct | 720 |
| tgtccagacc | tatktttctg | ttgcgttttt | gaaacaggag | gtgcacgtac | cacccaatta | 780 |
| tctatggcag | catgcatgta | taggccgaac | tattatcagc | tctgatgttt | cagagagaag | 840 |
| acctcagaaa | ccgaagaaa | accaccaccc | tcctattgtg | tctgaagttt | cacgtgtgtt | 900 |
| tatgaaatct | aatgggaaat | ggatcacacg | atttctttta | gggaattaaa | aaaaataaaa | 960 |
| gaattacggc | ttttacagca | acaatacgat | tatcttatag | gaaaaaaaaa | atcattgtaa | 1020 |
| agtatcaaga | caatacagat | aaatgaaaag | gctgttaaag | tagatgacat | catgtgttag | 1080 |
| cctgttcccta | atcccctaga | attgtaatgt | gtgggatata | aattagtttt | tattattctc | 1140 |
| ttaaaaatca | aagatgatct | ctatcacttt | gccacctgtt | tgatgtgcag | tggaactgg | 1200 |
| ttaaagccagt | tggtcatact | tcstttacaa | atataaagat | agctgttttag | gatattttgt | 1260 |
| tacatttttg | taaatttttg | aaatgctagt | aatgtgtttt | caccagcaag | tatttgttgc | 1320 |
| aaacttaatg | tcattttcct | taagatggtt | acagctatgt | aacctgtatt | attctggacg | 1380 |
| gacttattaa | aatacaaaaca | gacaaaaaat | aaaacaaaac | ttgagttcta | tttaccttgc | 1440 |

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acatttttttg ttgttacagt gaaaaaaatg gtccaagaaa atgttttgcca tttttgcatt 1500
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ttaggggacac aaggaggaca ataataagctg atcttttgaa atttgaaaaa cgtcttttaga 1620
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attctcagcc aacctacagc catgatcttt agcacagtga tatcaccatg acttcacaga 2040
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aaaaaaawaa aaaaamwagg ggggcccggt wcccag 2136

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<210> 945

<211> 1203

<212> DNA

<213> Homo sapiens

<400> 945

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tatttctttg gagaagggtc tatccaggtc ctttgcctat ttttaattga gttgtctttt 180
ttttttaagt tttctgtttt cctaaccact agactaccag ggatgagyyt tctttttatt 240
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cacaaaaactt ttttaacttt atgattttcca agatacgtat tttttttcta ttgtcacttg 420
tgcttttggg gccatatcta gaaaaccatt gcctaatacca aggtcaagaa gattaatgcc 480
tgtgttttct tctaagaact tgtatagttt tagttctcac aatgggtctt gatccatttc 540
gagtatatat ttatatatga tgtgatgtag ggggtccagt tcattctttt gcttgtggat 600
ctccacttgt cccactgctg gattattgag aaaaatatcc tttctccacg gaattgyctt 660
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ttgggaagct taccttttkt tttttttact tagtctgtgt ttggttccac cagttttatg 780
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gtcactacca aggcctaaat atgggtgggt aaattttaat tctcaaaagt gtaggaggct 1140
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<210> 946

<211> 1144

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3)..(3)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (10)..(10)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (24)..(24)

<223> n equals a,t,g, or c

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 gtggtggtga tgaagtttct cctggcggcg ctggtcctgt ctctcattct gccgaggagc 180
 agccagtaca tcaagtggat cgtctctgcg gggcttgccc aggtcagcga gttttccttt 240
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<210> 947
 <211> 1120
 <212> DNA
 <213> Homo sapiens

<400> 947
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 cctcaccttg tcagtgggtg tgatgaagtt tctcctggcg gcgctgggtcc tgcctctcat 180
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 cgagttttcc tttgtcctgg ggagccgggc gcgaagagcg ggcgtcatct ctccggaggt 300
 gtacctcctt atactgagtg tgaccacgct cagcctcttg ctcccccgg tgctgtggag 360
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 accttgaatg tgggtgcctgg atgtgccttt ttttttttcc cctgaaatta ttattaattt 720
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<210> 948
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 948
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 Leu His Leu Ile Gln Leu Val Gly Cys Gly Leu Leu Thr Glu Glu Ile
 20 25 30
 Lys Glu Ser Lys Tyr Leu Ile Lys Thr Leu Gly Ser Gly

35

40

45

<210> 949

<211> 72

<212> PRT

<213> Homo sapiens

<400> 949

Met Pro Ser Ile Arg Leu Gly Leu Ser His Leu Phe Leu Thr Ala Gly
 1 5 10 15

Ile Tyr Cys Leu Leu Cys Ala Arg Cys Cys Ala Leu Gly Arg Gly
 20 25 30

Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu
 35 40 45

Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr
 50 55 60

His Arg Gly Leu Ile Pro Tyr Val
 65 70

<210> 950

<211> 100

<212> PRT

<213> Homo sapiens

<400> 950

Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val
 1 5 10 15

Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Gly Ala Ala
 20 25 30

His Phe Tyr Leu His Thr Ser Phe Ser Arg Pro His Thr Gly Pro Pro
 35 40 45

Leu Pro Thr Pro Gly Pro Asp Arg Asp Arg Glu Leu Thr Ala Asp Ser
 50 55 60

Asp Val Asp Glu Phe Leu Asp Lys Phe Leu Ser Ala Gly Val Lys Gln
 65 70 75 80

Ser Asp Leu Pro Arg Lys Glu Thr Glu Gln Pro Pro Ala Pro Gly Ser
 85 90 95

Met Glu Glu Thr
 100

<210> 951

<211> 131

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any amino acid

<220>
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<220>
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<220>
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 <222> (66)
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<220>
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 <222> (78)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (102)
 <223> Xaa equals any amino acid

<400> 951

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Trp | Ser | Val | Ile | Arg | Ser | Leu | Cys | Pro | Ser | Arg | Leu | Gln | Ser | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| His | Val | Cys | Phe | Cys | Pro | Arg | Leu | Cys | Leu | Ala | Val | Pro | Cys | Val | Phe |
| | | 20 | | | | | 25 | | | | | 30 | | | |
| His | Leu | Ser | Ser | Pro | Trp | Phe | His | Val | Arg | Xaa | Xaa | Phe | Phe | Ser | Gly |
| | 35 | | | | | 40 | | | | | | 45 | | | |
| Xaa | Pro | Gly | Cys | Ile | Trp | Gly | Ile | Cys | Phe | Val | Gly | Leu | Leu | Leu | Gly |
| | 50 | | | | 55 | | | | | | 60 | | | | |
| Ala | Xaa | Arg | Pro | Arg | Ser | Gly | Cys | Leu | Cys | Ser | Pro | Ser | Xaa | Cys | Leu |
| 65 | | | | 70 | | | | | | 75 | | | | 80 | |
| Trp | Ser | Leu | Val | Val | Cys | Glu | Ser | Ile | Cys | Leu | Pro | Arg | Xaa | Gly | Pro |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Asn | Gln | Ala | Pro | Pro | Xaa | Pro | Leu | Phe | Leu | Ser | Leu | Asn | Leu | Pro | Phe |
| | | 100 | | | | | 105 | | | | | | 110 | | |
| Leu | Phe | Gln | Pro | Leu | Gln | Met | Arg | Trp | Leu | Ser | Ala | Val | Gly | Trp | Arg |
| | 115 | | | | | 120 | | | | | | 125 | | | |
| Glu | Ala | Met | | | | | | | | | | | | | |

130

<210> 952
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 952
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 Glu His Arg Thr Pro Ser Glu Gly Glu Gly Ile Ser Thr Ala Pro Pro
 35 40 45
 Pro Cys Trp Asn Glu Thr Gln Pro Gln Gly Gly Ala Lys Leu
 50 55 60

<210> 953
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 953
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 Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly
 20 25 30
 Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu
 35 40 45
 Ser

<210> 954
 <211> 218
 <212> PRT
 <213> Homo sapiens

<400> 954
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 1 5 10 15
 Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
 20 25 30
 Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
 35 40 45
 Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly His Met Gln Cys
 50 55 60

Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr Glu Val Gln Ala Ala
 65 70 75 80
 Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala Phe Val Ala Leu Phe
 85 90 95
 Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys Val Ala Pro Gly Pro
 100 105 110
 Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val Leu Tyr Leu Phe Cys
 115 120 125
 Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe Ala Asn Ile Val Val
 130 135 140
 Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser Gln Lys Tyr Glu Leu
 145 150 155 160
 Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr Ala Leu Leu Met Val
 165 170 175
 Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val Cys Thr Gly Arg Pro
 180 185 190
 Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro Arg Arg Pro Thr Ala
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 Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val
 210 215

<210> 955
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any amino acid

<400> 955
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 20 25 30
 Asn Xaa Asp Thr Thr Phe Lys Asn Lys Met Leu Asn
 35 40

<210> 956
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 956

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 1 5 10 15

Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp
 20 25 30

<210> 957

<211> 44

<212> PRT

<213> Homo sapiens

<400> 957

Met Gln Cys Asp Thr Phe Ser Lys Ala Thr Cys Cys Lys Ile Leu Leu
 1 5 10 15

Leu Ser Cys Cys Val Leu Tyr Leu Val Phe Ser Arg Leu Arg Gly Leu
 20 25 30

Asp Gln Arg Ser Lys Arg Tyr Ser Leu Pro Asp His
 35 40

<210> 958

<211> 91

<212> PRT

<213> Homo sapiens

<400> 958

Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Leu Ser Pro Val Val
 1 5 10 15

Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp
 20 25 30

His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro
 35 40 45

Ser Ser Ala Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser
 50 55 60

Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser
 65 70 75 80

Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp
 85 90

<210> 959

<211> 49

<212> PRT

<213> Homo sapiens

<400> 959

Gly Arg Lys Gly Gly Leu Ser Gly Thr Ser Phe Phe Thr Trp Phe Met
 1 5 10 15

Val Ile Ala Leu Leu Gly Val Trp Thr Ser Val Pro Val Val Trp Phe

20 25 30
 Asp Leu Val Val Asp Glu Gln Ile Thr Ser Gln Ser Lys Gly Leu Pro
 35 40 45
 Leu

 <210> 960
 <211> 300
 <212> PRT
 <213> Homo sapiens

 <400> 960
 Met Lys Phe Leu Leu Asp Ile Leu Leu Leu Leu Pro Leu Leu Ile Val
 1 5 10 15
 Cys Ser Leu Glu Ser Phe Val Lys Leu Phe Ile Pro Lys Arg Arg Lys
 20 25 30
 Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly His Gly Ile
 35 40 45
 Gly Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys Ser Lys Leu Val
 50 55 60
 Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu Thr Ala Ala Lys Cys
 65 70 75 80
 Lys Gly Leu Gly Ala Lys Val His Thr Phe Val Val Asp Cys Ser Asn
 85 90 95
 Arg Glu Asp Ile Tyr Ser Ser Ala Lys Lys Val Lys Ala Glu Ile Gly
 100 105 110
 Asp Val Ser Ile Leu Val Asn Asn Ala Gly Val Val Tyr Thr Ser Asp
 115 120 125
 Leu Phe Ala Thr Gln Asp Pro Gln Ile Glu Lys Thr Phe Glu Val Asn
 130 135 140
 Val Leu Ala His Phe Trp Thr Thr Lys Ala Phe Leu Pro Ala Met Thr
 145 150 155 160
 Lys Asn Asn His Gly His Ile Val Thr Val Ala Ser Ala Ala Gly His
 165 170 175
 Val Ser Val Pro Phe Leu Leu Ala Tyr Cys Ser Ser Lys Phe Ala Ala
 180 185 190
 Val Gly Phe His Lys Thr Leu Thr Asp Glu Leu Ala Ala Leu Gln Ile
 195 200 205
 Thr Gly Val Lys Thr Thr Cys Leu Cys Pro Asn Phe Val Asn Thr Gly
 210 215 220
 Phe Ile Lys Asn Pro Ser Thr Ser Leu Gly Pro Thr Leu Glu Pro Glu
 225 230 235 240

Glu Val Val Asn Arg Leu Met His Gly Ile Leu Thr Glu Gln Lys Met
 245 250 255

Ile Phe Ile Pro Ser Ser Ile Ala Phe Leu Thr Thr Leu Glu Arg Ile
 260 265 270

Leu Pro Glu Arg Phe Leu Ala Val Leu Lys Arg Lys Ile Ser Val Lys
 275 280 285

Phe Asp Ala Val Ile Gly Tyr Lys Met Lys Ala Gln
 290 295 300

<210> 961
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 961
 Met Pro Arg Ala Thr Leu Trp Gly His Leu Ser Pro Ala Trp Val Leu
 1 5 10 15

Val Pro Trp Thr Pro Arg Ala Cys Gly Gln Ala Ala Pro Gly Arg Gly
 20 25 30

His Val Ala Ser Asp His Lys Ser Gly Leu Pro Trp Pro Lys His Cys
 35 40 45

Ser Cys Leu His Pro Arg Ala Ser Gln Pro Cys Leu Phe Ser Leu Asn
 50 55 60

Ser Asn Arg Thr Val Phe Thr Ala Ile Gln Arg Val Ala Leu Gly Trp
 65 70 75 80

Thr Phe Trp Val Gln Ala Asn Leu Val Pro Arg Cys Thr
 85 90

<210> 962
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 962
 Met Glu His Leu Ile Arg Ser Gly Val Lys Ile Leu Phe Leu Asn Leu
 1 5 10 15

Leu Leu Thr Ser Cys Thr Thr Leu Asn Glu Trp Leu Asn Phe Leu Val
 20 25 30

Thr Leu Asn Cys Ser Arg Tyr Lys Met Thr Gly
 35 40

<210> 963
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 963

Met Arg Leu Cys Val Thr Gly Pro Pro Val Phe Phe Phe Phe Leu Asn
 1 5 10 15
 Phe Phe Phe Phe Leu Cys Val Gly Ala Cys Leu Gly Asp Leu Lys Ile
 20 25 30
 Ser Arg Leu Val Tyr Leu Cys Lys Ala Cys Leu Arg Leu Glu Tyr Leu
 35 40 45
 Gly Lys Glu Ser Asp Ser Met Leu Ser Glu Phe Leu Lys Gly Gln Lys
 50 55 60
 Lys Asn Trp Arg Leu Leu Lys Cys Arg Phe Glu Val Ile Phe Leu Lys
 65 70 75 80
 Tyr Tyr Phe Gly Phe Cys Asp Ile Val Lys Asn
 85 90

<210> 964

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any amino acid

<400> 964

Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu
 1 5 10 15
 His Leu Thr Ala Ala Phe Leu Gln Arg Ala Gln His Xaa Phe Asp Tyr
 20 25 30
 Lys Asp Glu Ser Gly Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr
 35 40 45
 Thr Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr
 50 55 60
 Ile Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp
 65 70 75 80
 Phe Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met
 85 90 95
 Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu
 100 105 110
 Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser
 115 120 125
 Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser
 130 135 140
 Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp Val

145 150 155 160
 Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr
 165 170 175
 Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg Thr
 180 185 190
 Arg Val Leu Phe Ile Tyr
 195

<210> 965
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 965
 Met Leu Thr Tyr Leu Pro Arg Trp Cys Phe Leu Ser Leu Pro Pro Pro
 1 5 10 15
 Cys Cys Gly Ala Ala Ser Cys Thr Met Met His Ile Gln Ile Ile Leu
 20 25 30
 Asn Thr His Ile Leu Ile Glu Arg Phe Leu Gly Phe Leu Leu Asn Gln
 35 40 45
 Val Tyr
 50

<210> 966
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 966
 Met Thr Ser Arg Arg Ser Ser Thr Leu Ser Met Thr Ser Ser Leu Leu
 1 5 10 15
 Ser Leu Gly Cys Ala Leu Thr Ser Ala Phe Pro Ala Ser Thr Met Ser
 20 25 30
 Trp Val Pro Leu Leu Gln Met Leu Asp Gln Ser Pro Arg Arg Val Met
 35 40 45
 Arg Lys Ser Val Ser Gln Leu Cys Pro Leu Leu Arg Pro His Pro Pro
 50 55 60
 Leu Ser Ser Lys His Pro Leu Val Leu Pro Leu Gln Leu Pro Pro Thr
 65 70 75 80
 Phe Leu His Leu Leu Pro Gly Pro Gly Cys Pro Gly Gln Thr Val Ala
 85 90 95
 Tyr Trp Leu Leu Glu Phe Leu Ser Arg Ala Thr Leu Lys Leu Tyr Pro
 100 105 110
 Gly Asp Arg Pro Leu Trp Leu Gln Pro Thr Arg Leu Asn Phe Lys Asp

115 120 125
 His Trp Thr Ile Phe Ser Val Ala Ser Ala Ala Leu Phe Cys Val His
 130 135 140
 Arg Met Ala Thr Asp Arg His Ala Ser Phe Pro Thr His Trp Lys Ala
 145 150 155 160
 His Arg Gln Gly Glu Arg Gly His Arg Arg Cys Gln His Cys Arg Tyr
 165 170 175
 Ser Lys Asp Leu Lys
 180

<210> 967
 <211> 66
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any amino acid

<400> 967
 Met Asn Leu Ser Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn
 1 5 10 15
 Phe Ser Leu Phe Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile
 20 25 30
 Cys Ser Gly Asn Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys
 35 40 45
 Ile Phe Lys Glu Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe
 50 55 60
 Val Val
 65

<210> 968
 <211> 317
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (207)
 <223> Xaa equals any amino acid

<400> 968
 Met Pro Gly Leu Gly Arg Pro Arg Gln Ala Arg Trp Thr Leu Met Leu
 1 5 10 15
 Leu Leu Ser Thr Ala Met Tyr Gly Ala His Ala Pro Leu Leu Ala Leu
 20 25 30

Cys His Val Asp Gly Arg Val Pro Phe Arg Pro Ser Ser Ala Val Leu
 35 40 45
 Leu Thr Glu Leu Thr Lys Leu Leu Leu Cys Ala Phe Ser Leu Leu Val
 50 55 60
 Gly Trp Gln Ala Trp Pro Gln Gly Pro Pro Pro Trp Arg Gln Ala Ala
 65 70 75 80
 Pro Phe Ala Leu Ser Ala Leu Leu Tyr Gly Ala Asn Asn Asn Leu Val
 85 90 95
 Ile Tyr Leu Gln Arg Tyr Met Asp Pro Ser Thr Tyr Gln Val Leu Ser
 100 105 110
 Asn Leu Lys Ile Gly Ser Thr Ala Val Leu Tyr Cys Leu Cys Leu Arg
 115 120 125
 His Arg Leu Ser Val Arg Gln Gly Leu Ala Leu Leu Leu Leu Met Ala
 130 135 140
 Ala Gly Ala Cys Tyr Ala Ala Gly Gly Leu Gln Val Pro Gly Asn Thr
 145 150 155 160
 Leu Pro Ser Pro Pro Pro Ala Ala Ala Ala Ser Pro Met Pro Leu His
 165 170 175
 Ile Thr Pro Leu Gly Leu Leu Leu Leu Ile Leu Tyr Cys Leu Ile Ser
 180 185 190
 Gly Leu Ser Ser Val Tyr Thr Glu Leu Leu Met Lys Arg Gln Xaa Leu
 195 200 205
 Pro Leu Ala Leu Gln Asn Leu Phe Leu Tyr Thr Phe Gly Val Leu Leu
 210 215 220
 Asn Leu Gly Leu His Ala Gly Gly Gly Ser Gly Pro Gly Leu Leu Glu
 225 230 235 240
 Gly Phe Ser Gly Trp Ala Ala Leu Val Val Leu Ser Gln Ala Leu Asn
 245 250 255
 Gly Leu Leu Met Ser Ala Val Met Lys His Gly Ser Ser Ile Thr Arg
 260 265 270
 Leu Phe Val Val Ser Cys Ser Leu Val Val Asn Ala Val Leu Ser Ala
 275 280 285
 Val Leu Leu Arg Leu Gln Leu Thr Ala Ala Phe Phe Leu Ala Thr Leu
 290 295 300
 Leu Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly Ser Arg
 305 310 315

<210> 969

<211> 446

<212> PRT

<213> Homo sapiens

<400> 969

Met Leu Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu Ser
 1 5 10 15
 His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys Ser Ser
 20 25 30
 Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu Glu Leu Asp
 35 40 45
 Ala Glu Val Leu Glu Val Phe His Pro Thr His Glu Trp Gln Ala Leu
 50 55 60
 Gln Pro Gly Gln Ala Val Pro Ala Gly Ser His Val Arg Leu Asn Leu
 65 70 75 80
 Gln Thr Gly Glu Arg Glu Ala Lys Leu Gln Tyr Glu Asp Lys Phe Arg
 85 90 95
 Asn Asn Leu Lys Gly Lys Arg Leu Asp Ile Asn Thr Asn Thr Tyr Thr
 100 105 110
 Ser Gln Asp Leu Lys Ser Ala Leu Ala Lys Phe Lys Glu Gly Ala Glu
 115 120 125
 Met Glu Ser Ser Lys Glu Asp Lys Ala Arg Gln Ala Glu Val Lys Arg
 130 135 140
 Leu Phe Arg Pro Ile Glu Glu Leu Lys Lys Asp Phe Asp Glu Leu Asn
 145 150 155 160
 Val Val Ile Glu Thr Asp Met Gln Ile Met Val Arg Leu Ile Asn Lys
 165 170 175
 Phe Asn Ser Ser Ser Ser Ser Leu Glu Glu Lys Ile Ala Ala Leu Phe
 180 185 190
 Asp Leu Glu Tyr Tyr Val His Gln Met Asp Asn Ala Gln Asp Leu Leu
 195 200 205
 Ser Phe Gly Gly Leu Gln Val Val Ile Asn Gly Leu Asn Ser Thr Glu
 210 215 220
 Pro Leu Val Lys Glu Tyr Ala Ala Phe Val Leu Gly Ala Ala Phe Ser
 225 230 235 240
 Ser Asn Pro Lys Val Gln Val Glu Ala Ile Glu Gly Gly Ala Leu Gln
 245 250 255
 Lys Leu Leu Val Ile Leu Ala Thr Glu Gln Pro Leu Thr Ala Lys Lys
 260 265 270
 Lys Val Leu Phe Ala Leu Cys Ser Leu Leu Arg His Phe Pro Tyr Ala
 275 280 285
 Gln Arg Gln Phe Leu Lys Leu Gly Gly Leu Gln Val Leu Arg Thr Leu
 290 295 300
 Val Gln Glu Lys Gly Thr Glu Val Leu Ala Val Arg Val Val Thr Leu
 305 310 315 320

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<210> 970
<211> 140
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (129)
<223> Xaa equals any amino acid
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<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any amino acid
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<220>  
<221> SITE  
<222> (134)  
<223> Xaa equals any amino acid
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<400> 970
Met Phe Phe Ser Leu Pro Gly Leu Trp Gln Ile Ala Ser Phe Thr His
  1             5             10             15
Asn Leu Ile Phe His Leu Trp Val Trp Gly Ser Glu Ser Gly Glu His
      20             25             30
Leu Gln Ser His Asn Asp Pro Asp Thr Arg Gln Gly Gly His Ile Pro
      35             40             45
Ile Arg Leu Leu Gly Glu Ser Ser Ala Ser Val Pro Gly Ser Ser Glu
      50             55             60
Gly His Thr Gly Gly Pro Ala Pro Pro Arg Val Gly Gly Ser Ala Gly
      65             70             75             80

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Ile Ile Arg Thr His Val Val Phe Leu Val Ser Trp Pro Leu Leu Gln
 85 90 95
 Arg Glu Gln His Arg Leu Ser Trp Lys Leu Pro Ser Val Met Trp Gly
 100 105 110
 Asp Ser Arg Glu Pro His Leu Ala Arg Leu Asp Gln Ser Lys Trp Pro
 115 120 125
 Xaa Ala Thr Xaa Ala Xaa Gln Tyr Leu Gly Arg Gly
 130 135 140

<210> 971
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 971
 Met His Phe Phe Val Glu Ser Thr Ile Val Ser Asp Thr Leu Ile Thr
 1 5 10 15
 Leu Ser Asn Leu Thr Phe His Lys Cys Pro Glu Tyr Glu Asn Ile Ile
 20 25 30
 Gln Asp Leu Asn Thr Asn Tyr Gln Asn Leu Gln Leu Ser Asn Gly Arg
 35 40 45
 Leu Arg Phe Met Leu Cys His Val Phe Ser Ser Phe Leu Phe Val Met
 50 55 60
 Val Phe Gln Ile Val Glu Lys Glu Asn Ile Leu Phe Val Ile Ala Ser
 65 70 75 80
 Ala Ser Tyr Phe Cys Lys Thr Asn Tyr Ser Asn Ser Val Val
 85 90

<210> 972
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 972
 Met Val Gln Phe Glu Val Ile Phe Leu Leu Phe Gly Leu Cys Phe Ser
 1 5 10 15
 Ser Ser Ser Ser Arg Leu Val Gly Ser Gln Val Glu Asn Phe Ser Pro
 20 25 30
 Thr Pro Cys Ile Phe Gln Ala Phe Arg Cys Ser Ser Leu Ala Ile Ile
 35 40 45
 Ser Met Ser Leu Ser
 50

<210> 973
 <211> 607
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any amino acid

<400> 973
 Met Arg Thr Pro Gln Leu Ala Leu Leu Gln Val Phe Phe Leu Val Phe
 1 5 10 15
 Pro Asp Gly Val Arg Pro Gln Pro Ser Ser Ser Pro Ser Gly Ala Val
 20 25 30
 Pro Thr Ser Leu Glu Leu Gln Arg Gly Thr Asp Gly Gly Thr Leu Gln
 35 40 45
 Ser Pro Ser Glu Ala Thr Ala Thr Arg Pro Ala Val Pro Gly Leu Pro
 50 55 60
 Thr Val Val Pro Thr Leu Val Thr Pro Ser Ala Pro Gly Asn Arg Thr
 65 70 75 80
 Val Asp Leu Phe Pro Val Leu Pro Ile Cys Val Cys Asp Leu Thr Pro
 85 90 95
 Gly Ala Cys Asp Ile Asn Cys Cys Cys Asp Arg Asp Cys Tyr Leu Leu
 100 105 110
 His Pro Arg Thr Val Phe Ser Phe Cys Leu Pro Gly Ser Val Arg Ser
 115 120 125
 Ser Ser Trp Val Cys Val Asp Asn Ser Val Ile Phe Arg Ser Asn Ser
 130 135 140
 Pro Phe Pro Ser Arg Val Phe Met Asp Ser Asn Gly Ile Arg Gln Phe
 145 150 155 160
 Cys Val His Val Asn Asn Ser Asn Leu Asn Tyr Phe Gln Lys Leu Gln
 165 170 175
 Lys Val Asn Ala Thr Asn Phe Gln Ala Leu Ala Ala Glu Phe Gly Gly
 180 185 190
 Glu Ser Phe Thr Ser Thr Phe Gln Thr Gln Ser Pro Pro Ser Phe Tyr
 195 200 205
 Arg Ala Gly Asp Pro Ile Leu Thr Tyr Phe Pro Lys Trp Ser Val Ile
 210 215 220
 Ser Leu Leu Arg Gln Pro Ala Gly Val Gly Ala Gly Gly Leu Cys Ala
 225 230 235 240
 Glu Xaa Asn Pro Ala Gly Phe Leu Glu Ser Lys Ser Thr Thr Cys Thr
 245 250 255
 Arg Phe Phe Lys Asn Leu Ala Ser Ser Cys Thr Leu Asp Ser Ala Leu
 260 265 270

Asn Ala Ala Ser Tyr Tyr Asn Phe Thr Val Leu Lys Val Pro Arg Ser
 275 280 285
 Met Thr Asp Pro Gln Asn Met Glu Phe Gln Val Pro Val Ile Leu Thr
 290 295 300
 Ser Gln Ala Asn Ala Pro Leu Leu Ala Gly Asn Thr Cys Gln Asn Val
 305 310 315 320
 Val Ser Gln Val Thr Tyr Glu Ile Glu Thr Asn Gly Thr Phe Gly Ile
 325 330 335
 Gln Lys Val Ser Val Ser Leu Gly Gln Thr Asn Leu Thr Val Glu Pro
 340 345 350
 Gly Ala Ser Leu Gln Gln His Phe Ile Leu Arg Phe Arg Ala Phe Gln
 355 360 365
 Gln Ser Thr Ala Ala Ser Leu Thr Ser Pro Arg Ser Gly Asn Pro Gly
 370 375 380
 Tyr Ile Val Gly Lys Pro Leu Leu Ala Leu Thr Asp Asp Ile Ser Tyr
 385 390 395 400
 Ser Met Thr Leu Leu Gln Ser Gln Gly Asn Gly Ser Cys Ser Val Lys
 405 410 415
 Arg His Glu Val Gln Phe Gly Val Asn Ala Ile Ser Gly Cys Lys Leu
 420 425 430
 Arg Leu Lys Lys Ala Asp Cys Ser His Leu Gln Gln Glu Ile Tyr Gln
 435 440 445
 Thr Leu His Gly Arg Pro Arg Pro Glu Tyr Val Ala Ile Phe Gly Asn
 450 455 460
 Ala Asp Pro Ala Gln Lys Gly Gly Trp Thr Arg Ile Leu Asn Arg His
 465 470 475 480
 Cys Ser Ile Ser Ala Ile Asn Cys Thr Ser Cys Cys Leu Ile Pro Val
 485 490 495
 Ser Leu Glu Ile Gln Val Leu Trp Ala Tyr Val Gly Leu Leu Ser Asn
 500 505 510
 Pro Gln Ala His Val Ser Gly Val Arg Phe Leu Tyr Gln Cys Gln Ser
 515 520 525
 Ile Gln Asp Ser Gln Gln Val Thr Glu Val Ser Leu Thr Thr Leu Val
 530 535 540
 Asn Phe Val Asp Ile Thr Gln Lys Pro Gln Pro Pro Arg Gly Gln Pro
 545 550 555 560
 Lys Met Asp Trp Lys Trp Pro Phe Asp Phe Phe Pro Phe Lys Val Ala
 565 570 575
 Phe Ser Arg Gly Val Phe Ser Gln Lys Cys Ser Val Ser Pro Ile Leu
 580 585 590

Ile Leu Cys Leu Leu Leu Leu Gly Val Leu Asn Leu Glu Thr Met
 595 600 605

<210> 974
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 974
 Met Asn Tyr Ser Arg Ser Pro Trp Ala Ala Val Met Glu Pro Leu Thr
 1 5 10 15
 Leu Leu Phe Leu His Leu Ser Cys Leu Leu Ser Leu Cys Glu Ala Val
 20 25 30
 Gly Trp Asp Ser Glu Cys Leu Val Cys Ser Leu Gly Glu Glu Glu Phe
 35 40 45
 Leu Arg Met Gln Ala Leu Leu Cys Gly Cys Arg Leu His Leu Gly Gly
 50 55 60
 Val Leu Tyr Val Cys Thr Leu Gly Thr Ala Cys Ile Trp Lys Ile
 65 70 75

<210> 975
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 975
 Met Pro Ser Ser Trp Leu Pro Gly Cys Phe Val Leu Leu Cys Leu Val
 1 5 10 15
 Ala Val Gly Cys Gln Leu Arg Glu Trp Gly Val Gly Gly Val Ser Ala
 20 25 30
 Val Gly Leu Leu Ala Leu Pro His Leu Gln Val Leu Gly Met Arg Gly
 35 40 45
 Arg Gly Leu Ile Ser Gly Gly
 50 55

<210> 976
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 976
 Met Asp Ser Cys Leu Phe Leu Arg Asp Phe Cys Trp Lys Met Arg Met
 1 5 10 15
 Leu Thr Ile Leu Pro Leu Gly Thr Leu Phe Pro Leu Leu Thr Leu Leu
 20 25 30
 Leu Leu Pro Leu Glu Val Pro Ser Val Ser Cys Gly Val Pro Phe Ala

35 40 45

Val Trp Asp Leu
50

<210> 977
<211> 41
<212> PRT
<213> Homo sapiens

<400> 977
Met Ala Thr Leu Gln Ile Thr Thr Ala Met Lys Ile Thr Met Met Ile
1 5 10 15
Thr Met Val Met Ile Ile Thr Thr Ile Val Glu Ala Met Lys Ile Pro
20 25 30
Thr Thr Ala Met Met Met Ala Met Gln
35 40

<210> 978
<211> 129
<212> PRT
<213> Homo sapiens

<400> 978
Met His Val Leu Pro Leu Leu Leu Ser Leu Leu Leu Leu Leu Leu
1 5 10 15
Leu Ser Ala Ser Phe Val Thr Phe Ser Thr Pro Thr Ser Ser Arg Asn
20 25 30
Ser Ser Cys Pro Asp Cys Glu Ser Leu Asn Thr Gly Leu Pro Ser Leu
35 40 45
Met Met Phe Gly Gly Ser Leu Leu Lys Trp Val Gln Asn Thr His Gly
50 55 60
Val Glu Ser Leu Leu Ser Ser Ala Lys Val Arg Leu Leu Pro Pro Ala
65 70 75 80
Leu Gly Val Leu Phe Pro Arg Leu His Pro Gly Thr Leu Thr Leu Val
85 90 95
Phe Leu Leu Ile Pro Phe Leu Thr Val Ser Ser Ser Thr Ser Asp Val
100 105 110
Leu Ser Ser Leu Glu Ser Pro Lys Leu Ser Val Thr Ile Phe His Tyr
115 120 125

Cys

<210> 979
<211> 50

<212> PRT

<213> Homo sapiens

<400> 979

Met Tyr Ile Phe Glu Leu Ser Leu Tyr Leu Glu Gly Thr Ser Phe Val
 1 5 10 15

Val Val Leu Leu Phe Leu Leu Ile Ser Val Ser Leu Asp Ser Pro Pro
 20 25 30

Thr Thr Lys Gly Trp Asp Ser Val Leu His Ile Trp Val Pro Leu Ile
 35 40 45

Val Gln
 50

<210> 980

<211> 264

<212> PRT

<213> Homo sapiens

<400> 980

Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala
 1 5 10 15

Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg
 20 25 30

Ala Gly Phe Arg Leu Phe Ile Pro Glu Glu Leu Ser Arg Tyr Arg Gly
 35 40 45

Gly Pro Gly Asp Pro Gly Leu Tyr Leu Ala Leu Leu Gly Arg Val Tyr
 50 55 60

Asp Val Ser Ser Gly Arg Arg His Tyr Glu Pro Gly Ser His Tyr Ser
 65 70 75 80

Gly Phe Ala Gly Arg Asp Ala Ser Arg Ala Phe Val Thr Gly Asp Cys
 85 90 95

Ser Glu Ala Gly Leu Val Asp Asp Val Ser Asp Leu Ser Ala Ala Glu
 100 105 110

Met Leu Thr Leu His Asn Trp Leu Ser Phe Tyr Glu Lys Asn Tyr Val
 115 120 125

Cys Val Gly Arg Val Thr Gly Arg Phe Tyr Gly Glu Asp Gly Leu Pro
 130 135 140

Thr Pro Ala Leu Thr Gln Val Glu Ala Ala Ile Thr Arg Gly Leu Glu
 145 150 155 160

Ala Asn Lys Leu Gln Leu Gln Glu Lys Gln Thr Phe Pro Pro Cys Asn
 165 170 175

Ala Glu Trp Ser Ser Ala Arg Gly Ser Arg Leu Trp Cys Ser Gln Lys
 180 185 190

Ser Gly Gly Val Ser Arg Asp Trp Ile Gly Val Pro Arg Lys Leu Tyr

195 200 205
 Lys Pro Gly Ala Lys Glu Pro Arg Cys Val Cys Val Arg Thr Thr Gly
 210 215 220
 Pro Pro Ser Gly Gln Met Pro Asp Asn Pro Pro His Arg Asn Arg Gly
 225 230 235 240
 Asp Leu Asp His Pro Asn Leu Ala Glu Tyr Thr Gly Cys Pro Pro Leu
 245 250 255
 Ala Ile Thr Cys Ser Phe Pro Leu
 260

<210> 981
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 981
 Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly
 1 5 10 15
 Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg
 20 25 30
 Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Arg Met Leu
 35 40 45
 Arg Gly Glu Leu Ser Cys Ala Cys Tyr Arg Pro His Val Gln Ala Leu
 50 55 60
 Gln Leu Gly Gly Cys Thr Cys Phe
 65 70

<210> 982
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 982
 Met Leu Gly Thr Ser Leu Ile Tyr Trp Thr Leu Phe Thr Leu Gly Leu
 1 5 10 15
 Asp Leu Ser Trp Ser Ile Ser Leu Ala Phe Lys Trp Cys Glu Arg Pro
 20 25 30
 Glu Trp Ile His Val Asp Ser Arg Pro Phe Ala Ser Leu Ser Arg Asp
 35 40 45
 Ser Gly Ala Ala Leu Gly Leu Gly Ile Ala Leu His Ser Pro Cys Tyr
 50 55 60
 Ala Gln Val Arg Arg Ala Gln Leu Gly Asn Gly Gln Lys Ile Ala Cys
 65 70 75 80
 Leu Val Leu Ala Met Gly Leu Leu Gly Pro Leu Asp Trp Leu Gly His

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<400> 984
Met Ala Gly Gln His Leu Ala Cys Leu Ala Ser Cys Val Met Ser Leu
  1                               10                      15

Ile Trp Phe Phe Phe Phe Cys Ser Cys Phe Ile Cys Ser Ala Pro Ala
      20                               25                      30

Pro Pro Gln Gln Leu Val Ala Tyr Gly Phe Phe Lys Arg Lys Val Asp
      35                               40                      45

Phe Met Leu Tyr Ile
      50

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<210> 985
 <211> 248
 <212> PRT
 <213> Homo sapiens

<400> 985
 Met Gly Pro Val Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val
 1 5 10 15
 His Glu Ala Trp Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu
 20 25 30
 Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu
 35 40 45
 Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu
 50 55 60
 Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser
 65 70 75 80
 Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg
 85 90 95
 Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr
 100 105 110
 Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln
 115 120 125
 Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu
 130 135 140
 Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu
 145 150 155 160
 Glu Glu Phe Glu Asp Ile Val Gly Asp Trp Tyr Phe His His Gln Glu
 165 170 175
 Gln Pro Leu Gln Asn Phe Leu Cys Glu Gly His Val Leu Pro Ala Ala
 180 185 190
 Glu Thr Ala Cys Leu Gln Glu Thr Trp Thr Gly Lys Glu Ile Thr Asp
 195 200 205
 Gly Glu Glu Lys Thr Glu Gly Glu Glu Glu Gln Glu Glu Glu Glu
 210 215 220
 Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr Lys Thr Gly Ser His
 225 230 235 240
 Pro Lys Leu Asp Arg Glu Asp Leu
 245

<210> 986
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 986

Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala
 1 5 10 15

Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Thr Thr
 20 25 30

Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser
 35 40 45

Leu Arg Ser Arg Ala Gln Val Asn Ala Asp Phe Pro Gly His Leu Cys
 50 55 60

<210> 987

<211> 56

<212> PRT

<213> Homo sapiens

<400> 987

Met Leu Val Ala Pro Phe Asn Leu Leu Phe Glu Met Ala Pro Phe Asn
 1 5 10 15

Ile Phe Leu Phe Pro Gln Trp Gly Leu Leu Trp Leu Met Leu Tyr Leu
 20 25 30

Leu Tyr Val Phe Gln Ala Ser Leu Arg Thr Pro Glu Leu Thr Trp Glu
 35 40 45

Arg Val Arg Ser Gln Val Asp Gln
 50 55

<210> 988

<211> 182

<212> PRT

<213> Homo sapiens

<400> 988

Met Met Val Cys Ser Ile Met Met Tyr Phe Leu Leu Gly Ile Thr Leu
 1 5 10 15

Leu Arg Ser Tyr Met Gln Ser Val Trp Thr Glu Glu Ser Gln Cys Thr
 20 25 30

Leu Leu Asn Ala Ser Ile Thr Glu Thr Phe Asn Cys Ser Phe Ser Cys
 35 40 45

Gly Pro Asp Cys Trp Lys Leu Ser Gln Tyr Pro Cys Leu Gln Val Tyr
 50 55 60

Val Asn Leu Thr Ser Ser Gly Glu Lys Leu Leu Leu Tyr His Thr Glu
 65 70 75 80

Glu Thr Ile Lys Ile Asn Gln Lys Cys Ser Tyr Ile Pro Lys Cys Gly

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<210> 989
<211> 53
<212> PRT
<213> Homo sapiens
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```

<400> 989
Met Leu Val Phe Leu Leu Leu Phe Ser Thr Val Thr Val Leu Cys Leu
  1                      5                      10                      15
Lys Val Val Phe Ser Leu Lys Ala Val Ala Tyr Ile Val Lys Asn Glu
                20                      25                      30
Gly Leu Cys Leu Lys Phe Ile Ala Leu Gln Arg Val Val Ser Leu Lys
          35                      40                      45
Ser Cys Thr Ile Lys
      50

```

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<210> 990
<211> 110
<212> PRT
<213> Homo sapiens
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<400> 990
Met Thr Val Ser Tyr Phe Trp Trp Leu Arg Val Gly Ala Trp Ala Glu
  1          5          10          15
Asp Val Glu Ala Leu Ala Ser Leu Pro Glu Asp Arg Leu Arg Trp Asn
          20          25          30
Leu Leu Ala Leu Pro Ala Ser Pro Cys Ala Val Thr Ala Leu Val Ala
          35          40          45
Arg His Arg Arg Ala Gly Leu Gln Arg Ser Ile Gln Cys Leu Leu Gly
          50          55          60
Arg Gln Gly Gly Gly Gly Cys Asn Cys Glu Leu Thr Lys Pro Gln Val

```


570

Tyr Thr Ile Leu Lys Pro Arg Lys Ala Lys Gln Ile Arg Lys Lys Ser
 245 250 255

Gly Gly

<210> 992
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 992
 Met Val Val Asn Asp Arg Leu Val Ser Thr Cys Ile Leu Cys Thr Leu
 1 5 10 15
 His Ile Pro Leu Phe Phe Leu Ile Phe Leu Val Tyr Glu Val His Leu
 20 25 30
 Val Phe Gln Ile Val Ala Asn Leu Gln Lys Ile Phe Gln Tyr Ile Tyr
 35 40 45

<210> 993
 <211> 202
 <212> PRT
 <213> Homo sapiens

<400> 993
 Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr
 1 5 10 15
 Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp
 20 25 30
 Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro
 35 40 45
 Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly
 50 55 60
 Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile
 65 70 75 80
 Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe
 85 90 95
 Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro
 100 105 110
 Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala
 115 120 125
 Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys
 130 135 140

Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr
 145 150 155 160
 Ala Ile Leu Lys Leu Ala Phe Pro Pro Gln Phe Ile Gly Ser Met Tyr
 165 170 175
 Met Phe Pro Leu Leu Tyr Ala Leu Phe Gln Ser Ala Glu Ala Gly Ile
 180 185 190
 Phe Val Leu Ile Tyr Lys Met Tyr Gly Arg
 195 200

<210> 994
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 994
 Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys
 1 5 10 15
 Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
 20 25 30
 Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
 35 40 45
 Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe
 50 55 60
 Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser
 65 70 75 80

<210> 995
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 995
 Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile
 1 5 10 15
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser
 20 25 30
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp
 35 40 45
 Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro
 50 55 60
 Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly
 65 70 75 80

```
<210> 996
<211> 23
<212> PRT
<213> Homo sapiens
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```
<210> 997
<211> 197
<212> PRT
<213> Homo sapiens
```

573

Leu Gln Val Lys Pro Ser Ala Asn Asp Gln Glu Leu Leu Val Lys Ile
 100 105 110
 Pro Leu Asp Met Val Ala Gly Phe Asn Thr Pro Leu Val Lys Thr Ile
 115 120 125
 Val Glu Phe His Met Thr Thr Glu Ala Gln Ala Thr Ile Arg Met Asp
 130 135 140
 Thr Ser Ala Ser Gly Pro Thr Arg Leu Val Leu Ser Asp Cys Ala Thr
 145 150 155 160
 Ser His Gly Ser Leu Arg Ile Gln Leu Leu His Lys Leu Ser Phe Leu
 165 170 175
 Val Asn Ala Leu Ala Lys Gln Val Met Asn Leu Leu Val Pro Ser Met
 180 185 190
 Pro Arg Trp Pro Asn
 195

<210> 998
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 998
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu Gly
 1 5 10 15
 Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile
 20 25 30
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp
 35 40 45
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Ser
 50 55 60
 Arg Asp Ala Ser Ser Gly Glu Glu Glu Glu Gly Lys Glu Lys Lys Thr
 65 70 75 80
 Phe Pro Ile Ser Gly Ala Arg Gly Gly Ala Arg Gly Thr Arg Tyr Arg
 85 90 95
 Tyr Val Ser Gln Ala Gln Pro Arg Gly Lys Pro Arg Gln Asp Thr Ala
 100 105 110
 Lys Ser Pro His Arg Thr Lys Phe Thr Leu Ser Leu Asp Val Pro Thr
 115 120 125
 Asn Ile Met Asn Leu Leu Phe Asn Ile Ala Lys Ala Lys Asn Leu Arg
 130 135 140
 Ala Gln
 145

WO 02/102993

PCT/US02/08123

<210> 999
<211> 174
<212> PRT
<213> Homo sapiens

<400> 999

Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
1 5 10 15
Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
20 25 30
Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
35 40 45
Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
50 55 60
Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
65 70 75 80
Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
85 90 95
Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
100 105 110
His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
115 120 125
Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly
130 135 140
Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
145 150 155 160
His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu Ile
165 170

<210> 1000
<211> 40
<212> PRT
<213> Homo sapiens

<400> 1000

Met Pro Phe Ser Ser Ser Val Lys Cys Leu Phe Gly Val Leu Leu Arg
1 5 10 15
Phe Cys Phe Val Val Phe Ser Val Val Val Phe Thr Phe Phe Leu Ser
20 25 30
Ile Pro Lys Arg Thr Leu Gly Tyr
35 40

<210> 1001
<211> 40
<212> PRT

<213> Homo sapiens

<400> 1001

Met Ile Ala Cys Gln Tyr Ile Ser Leu Ala Ile Met Leu Ala Phe Val
 1 5 10 15

Arg Trp Ala Ala Phe Leu Leu Phe Pro Phe Leu Cys Gly Asp Asn Gly
 20 25 30

Gly Asn Ile Gln Gln Lys Tyr Val
 35 40

<210> 1002

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1002

Met Glu Met Leu Ser Ser Lys Trp Ser Lys Arg Val Ala Ala Ser Leu
 1 5 10 15

Ala His Leu Ile Ser Leu Phe Ile Gly Leu Leu Phe Leu Leu Gly
 20 25 30

Ser Ser Val Tyr Pro Gly Thr Glu Thr Leu Phe Pro Lys Ser
 35 40 45

<210> 1003

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1003

Met Val Ala Val Gly Val Tyr Ala Arg Leu Met Lys His Ala Glu Ala
 1 5 10 15

Ala Leu Ala Cys Leu Ala Val Asp Pro Ala Ile Leu Leu Ile Val Val
 20 25 30

Gly Val Leu Met Phe Leu Leu Thr Phe Cys Gly Cys Ile Gly Ser Leu
 35 40 45

Arg Glu Asn Ile Cys Leu Leu Gln Thr Phe Ser Leu Cys Leu Thr Ala
 50 55 60

Val Phe Leu Leu Gln Leu Ala Ala Gly Ile Leu Gly Phe Val Phe Ser
 65 70 75 80

Asp Lys Ala Arg Gly Lys Val Ser Glu Ile Ile Asn Asn Ala Ile Val
 85 90 95

His Tyr Arg Asp Asp Leu Asp Leu Gln Asn Leu Ile Asp Phe Gly Gln
 100 105 110

Lys Lys Phe Ser Cys Cys Gly Gly Ile Ser Tyr Lys Asp Trp Ser Gln
 115 120 125

Asn Met Tyr Phe Asn Cys Ser Glu Asp Asn Pro Ser Arg Glu Arg Cys
 130 135 140
 Ser Val Pro Tyr Ser Cys Cys Leu Pro Thr Pro Asp Gln Ala Val Ile
 145 150 155 160
 Asn Thr Met Cys Gly Gln Gly Met Gln Ala Phe Asp Tyr Leu Glu Ala
 165 170 175
 Ser Lys Val Ile Tyr Thr Asn Gly Cys Ile Asp Lys Leu Val Asn Trp
 180 185 190
 Ile His Ser Asn Leu Phe Leu Leu Gly Gly Val Ala Leu Gly Leu Ala
 195 200 205
 Ile Pro Gln Leu Val Gly Ile Leu Leu Ser Gln Ile Leu Val Asn Gln
 210 215 220
 Ile Lys Asp Gln Ile Lys Leu Gln Leu Tyr Asn Gln Gln His Arg Ala
 225 230 235 240
 Asp Pro Trp Tyr

<210> 1004
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1004
 Met Ala Cys Leu Gly Ala Pro Ile Ser Ser Leu Leu Cys Trp Leu Leu
 1 5 10 15
 Leu Ala Leu Ile Ala Leu Glu Ile Val Pro Pro Ala Ala Pro Cys Glu
 20 25 30
 Val Leu Thr Pro Leu Gln Ser Ser Thr Asn Pro Ile Val Asn Lys Leu
 35 40 45
 Gly Val Lys Asp Val Asn Glu Leu Val Thr Pro Met Gln Gly Ile Gln
 50 55 60
 Thr Cys Phe Asn Ile Lys Lys Lys Trp Pro
 65 70

<210> 1005
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 1005
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
 65 70 75 80
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
 85 90 95
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
 100 105 110
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
 115 120 125
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
 130 135 140
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
 145 150 155 160
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
 165 170 175
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
 180 185 190
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
 195 200 205
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
 210 215 220
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu
 225 230 235 240
 Ile Phe Pro Ser Ala
 245

<210> 1006

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1006

Met Gly Gln Cys Pro Gly Ser Arg Val Leu Pro Gln Leu Met Gln Leu
 1 5 10 15
 Trp Leu Leu Leu Cys Ala Gln Ile Met Cys Leu Glu Ala Phe Leu Gln
 20 25 30
 Gln Gly Ser Val Arg Lys Trp Lys Ser Gly Val Ser Ser Phe Pro Gly
 35 40 45
 Glu Ser Leu Ala Glu Gln Leu Thr Leu Ser Lys His Cys Arg Trp Pro
 50 55 60

Leu Phe Leu Pro Gly Ser Ser Ser Trp Glu Leu Ser Ala Pro Gly Lys
 65 70 75 80

Phe Trp Gln

<210> 1007
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1007
 Met Tyr Leu Phe Leu Lys Thr Leu Leu Ser Phe Ser Thr Leu Met Met
 1 5 10 15
 Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu Leu
 20 25 30
 Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe Ala
 35 40 45
 Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe
 50 55 60

<210> 1008
 <211> 250
 <212> PRT
 <213> Homo sapiens

<400> 1008
 Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
 1 5 10 15
 Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
 20 25 30
 Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
 35 40 45
 Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys
 50 55 60
 Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro
 65 70 75 80
 Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp
 85 90 95
 Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr
 100 105 110
 Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe
 115 120 125
 Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp
 130 135 140

Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu
 145 150 155 160
 Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala
 165 170 175
 Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val
 180 185 190
 Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys
 195 200 205
 Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg
 210 215 220
 Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser
 225 230 235 240
 Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe
 245 250

<210> 1009
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1009
 Met Val Leu Ser Pro Trp Ala Cys Leu Phe Val Val Phe Phe Pro Tyr
 1 5 10 15
 Ile Gln Ser Ser Leu Arg Ser Asp Lys His Leu Gln Leu Ser Asn Ile
 20 25 30
 Leu Pro Thr Pro Ser His His Ile His Leu Pro Ala Ser Ile Cys Ile
 35 40 45
 Gln Leu Arg Ala Gly Asn
 50

<210> 1010
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1010
 Met Ala Val Ser Val Ile Phe Cys Gln Lys Leu Lys Thr Gly Ser Val
 1 5 10 15
 Lys Leu Trp Ile Gln Met Leu Leu Trp Leu Gln Phe Ser Val Ala Cys
 20 25 30
 Leu Arg Leu Arg Lys Gly Gly Lys Trp Ser Pro Trp Gly Leu Met Leu
 35 40 45
 Lys Glu Val Ile Trp Lys Asp Cys Arg
 50 55

<210> 1011
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1011
 Met Leu Ser Leu Phe Phe Cys Phe Trp Lys Pro Ser Phe Leu Val Ser
 1 5 10 15
 Arg Leu Val Ile Trp Leu Gly Leu Val Cys Gly Gly Arg Ser Leu Ser
 20 25 30
 Trp Val Ala Leu Gly Glu Asp Tyr Leu Gly Thr Pro Ile Leu Ile Pro
 35 40 45
 Asn Ile His Gln Thr Cys Pro His Pro Pro Leu Trp Glu Leu Val Pro
 50 55 60
 Glu His Pro Cys Arg Leu Val Leu Ile Phe Ser Leu Cys Glu His Thr
 65 70 75 80
 His Ile Arg

<210> 1012
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1012
 Met Ser Ile Leu Thr Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val
 1 5 10 15
 Arg Phe Trp Phe Leu His Gln Met Val Leu Asp Leu Cys Leu Gly Gln
 20 25 30
 Gly Val Pro Gln Gln Asn Leu Glu Asn Pro Arg Glu Arg Lys Ser Phe
 35 40 45
 Leu Leu Phe Val Arg Asn Leu Ile Ile Asp Ser Ser Leu Lys Ile Leu
 50 55 60
 Ser Gln Glu Pro Ser Asn Leu Trp Gln Arg Ile Pro Lys Met Met Thr
 65 70 75 80
 Thr

<210> 1013
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1013

Met Phe Lys Arg Met Cys Phe Phe Phe Gln Val Phe Leu Pro Leu Ala
 1 5 10 15
 Cys Thr Glu Leu Leu Trp Lys Gly Ala Pro Cys Arg His Ile Phe Gln
 20 25 30
 Thr Gly Pro Asp Leu Leu Val Thr Gln Arg Cys Val His Ser Leu Leu
 35 40 45
 Leu Gly Tyr Leu Ile Ser Ile Phe
 50 55

<210> 1014
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1014
 Met Trp Ala Val Leu Pro Ala Trp Phe Pro Phe Pro Gly Thr Cys His
 1 5 10 15
 Cys Leu Pro Val Ser Leu Arg Gly His Phe Trp Glu Val Arg Pro Trp
 20 25 30
 Pro Pro Gly Pro Leu Phe Arg Ser Glu Ala Pro Thr Cys Leu Gly Ser
 35 40 45
 Gly Ser Ser Gly Val Arg Pro Cys Pro Pro Gln Asp Ile Pro Ser Lys
 50 55 60
 Pro Ala Met Ser Gly Asp Gly Pro Leu Pro Gly Lys Val Leu Phe Leu
 65 70 75 80
 Leu Val Thr Glu Lys Asn Leu Pro
 85

<210> 1015
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 1015
 Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly Arg Thr
 1 5 10 15
 Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser Leu Gly
 20 25 30
 Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly Pro Gly
 35 40 45
 Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn Ala Phe
 50 55 60
 Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu Asp Glu
 65 70 75 80

```
<210> 1016
<211> 89
<212> PRT
<213> Homo sapiens
```

```

<400> 1016
Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
  1             5             10             15
Leu Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr
      20             25             30
Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
    35             40             45

```

Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
 50 55 60
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp
 65 70 75 80
 Arg Ala Val Val Val Gln Met Ala Gln
 85

<210> 1017
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 1017
 Met Phe Ser Ser Lys Ser Leu Leu Val Leu Pro Phe Cys Phe Arg Ser
 1 5 10 15
 Ala Ala His Leu Glu Leu Ser Val Trp Cys Val Cys Gly Val Arg
 20 25 30

<210> 1018
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1018
 Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro
 1 5 10 15
 Trp Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu
 20 25 30
 Cys His Asp Leu Pro Val Thr Gln Leu Leu Pro Gly Trp Leu Gly Glu
 35 40 45
 Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser
 50 55 60
 Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser
 65 70 75 80
 Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser
 85 90 95
 Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu
 100 105 110
 Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu
 115 120 125
 Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu
 130 135 140
 His Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys
 145 150 155 160

Thr Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Tyr Arg Thr
 165 170 175

Leu Gln Trp Leu Ser Trp Thr Gly His Leu Pro
 180 185

<210> 1019
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1019
 Met Tyr Leu Met Ser Phe Ser Ile His Phe Val Lys Ile Ile Cys Met
 1 5 10 15
 Cys Thr Ile Leu Val Leu Ser Pro Pro Val Leu Leu Lys Tyr Gln Asp
 20 25 30
 Ser Thr Pro Arg Pro Leu Trp Ser Gln Cys Lys Ile Pro Ile Asn Tyr
 35 40 45
 Leu Lys Gly Lys
 50

<210> 1020
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1020
 Met Pro Gly Val Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu
 1 5 10 15
 Ala Thr His Glu Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu
 20 25 30
 Ile Ala Glu Gly Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu
 35 40 45
 Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu
 50 55 60
 Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp
 65 70 75 80
 His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln
 85 90 95
 Ile Leu Pro Tyr His His Gln Gly Ser Cys
 100 105

<210> 1021
 <211> 51
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any amino acid

<400> 1021

```
Met Ala Gln His His Leu Leu Ser Ile Leu Leu Ala Ile Leu Ser Cys
  1                      5                      10                      15

Ser Ser Gln Pro Arg Gln Xaa Arg Gly Ser Gly Ala Leu Pro Cys Glu
                20                      25                      30

Val Cys Ser Ala Val Leu Leu Thr Cys Leu Arg Lys Ile Ser Gly Ser
      35                      40                      45

Leu Cys Val
      50
```

<210> 1022

<211> 97

<212> PRT

<213> Homo sapiens

<400> 1022

```
Met Ala Tyr Phe Lys Val Cys Val Ile Ile Trp Phe Gln Gln Phe Cys
  1                      5                      10                      15

Val Glu Glu Thr Ser Ile Ile Lys Asn Val Arg Met Leu Thr Ser Glu
                20                      25                      30

Phe Gln Asn Ser Tyr Ala Thr Pro Val Ser Gly Leu Leu Pro Gly Ala
      35                      40                      45

Val Ala Trp Arg Gly Gly Ala Val Tyr Gly Trp Val Arg His Ala Met
      50                      55                      60

Gln Val Leu Gln Lys Glu Pro Thr Gln Pro Ser Ser Phe Leu Pro Pro
      65                      70                      75                      80

Ser Asp Ala Ala Ser Phe Trp Gly Pro Glu Ser Arg Leu His Leu Thr
                85                      90                      95

Trp
```

<210> 1023

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1023

```
Met Ser Ser Phe Pro Gly Pro Gln Cys Val Gln Leu Ile Asn Leu Leu
  1                      5                      10                      15

His Leu Ile Cys Pro Val Ser Gly Leu Val Cys Ser Ala Ile Thr Ile
```

20 25 30
 Ala Leu Arg Gln Lys Ser Ile Pro His Gln Gln Gly Arg Glu Ala Val
 35 40 45
 Ile Lys Thr Pro Pro Pro Gly Ser Leu Pro
 50 55

<210> 1024
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any amino acid

<400> 1024
 Met Ser Asn Thr Leu Leu Ser Gln Trp Leu Leu Leu Thr Leu Phe
 1 5 10 15
 Lys Cys Ile Ile Leu Pro Leu Asn Leu Xaa Pro Ile Ile Arg Thr Ile
 20 25 30
 Pro Asp Trp Ser Pro Glu Leu Gly Thr Asn Thr
 35 40

<210> 1025
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 1025
 Met Leu Arg Gly Trp Ala Leu Ser Thr Phe Leu Val Cys Ile Leu Gln
 1 5 10 15
 Trp Val Arg Ser Leu Thr Ile Arg Leu Ala Ser Ala Leu Ser Val Arg
 20 25 30
 Gly Pro Ser Ser Ile Pro Ala Ser Leu Ala Ile Ile Tyr Thr Leu Phe
 35 40 45
 Ile Phe Ser Phe Lys Phe Leu Lys Ile Val Lys Ser Ile Tyr Ile
 50 55 60

<210> 1026
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 1026
 Met Leu Ala Gly Ala Gly Arg Pro Gly Leu Pro Gln Gly Arg His Leu
 1 5 10 15

Cys Trp Leu Leu Cys Ala Phe Thr Leu Lys Leu Cys Gln Ala Glu Ala
 20 25 30
 Pro Val Gln Glu Glu Lys Leu Ser Ala Ser Thr Ser Asn Leu Pro Cys
 35 40 45
 Trp Leu Val Glu Glu Phe Val Val Ala Glu Glu Cys Ser Pro Cys Ser
 50 55 60
 Asn Phe Arg Ala Lys Thr Thr Pro Glu Cys Gly Pro Thr Gly Tyr Val
 65 70 75 80
 Glu Lys Ile Thr Cys Ser Ser Ser Lys Arg Asn Glu Phe Lys Ser Leu
 85 90 95
 Pro Leu Ser Phe Asp Gly Thr Thr Leu Ile Leu Glu Val Arg Arg Gly
 100 105 110
 Cys Arg Val Cys Gly Pro Asp Leu Arg Leu Ser Cys His His Ser Ser
 115 120 125
 Ala Thr Ile Gly Gln Lys Gly Ser Gly Lys Gly Pro Glu Ala Asn Arg
 130 135 140
 Val His Ile Ala Thr Phe His Pro Cys Ile Leu Gly Leu Arg Asp Pro
 145 150 155 160
 Ile Ser Asp Ser Glu Ser Glu Met Asp
 165

<210> 1027
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1027
 Met Ala Ile Ile Ser Phe Glu Leu Leu Phe Leu Met Asn Leu Pro Thr
 1 5 10 15
 Val Asn Ser Ser Asn Phe Lys Leu Ile Ile Pro Glu Asp Val Thr Leu
 20 25 30
 Ser Phe Val Ser His Leu Asp Ile Thr Val Asn His Phe Val Phe Leu
 35 40 45
 Ser Thr Phe Glu Leu Ala Gly Val Ile Glu Gly Lys Pro Leu Pro Asp
 50 55 60
 Ser Lys Ser Asp Leu Cys Pro Ile Leu Gly Gln Leu Trp Phe His Ile
 65 70 75 80
 Leu Leu Phe Phe Ile Phe Trp Val
 85

<210> 1028
 <211> 47
 <212> PRT

<213> Homo sapiens

<400> 1028

Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
 1 5 10 15
 Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
 20 25 30
 Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser
 35 40 45

<210> 1029

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any amino acid

<400> 1029

Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser
 1 5 10 15
 Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly
 20 25 30
 Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Ile Leu
 35 40 45
 Leu Pro Pro Val Cys Thr Asn Ile Phe Leu Ser Ser Ser Pro Ser Glu
 50 55 60
 Val Tyr Trp Asn Met Ser Xaa Thr Ile Met Met Val Val Lys Met Met
 65 70 75 80
 Met Met Trp Val Ile Leu Ala Thr Leu Leu Gly Pro Ser Ser Pro Gln
 85 90 95
 Phe Val Ala Gln Ser Thr Leu His Thr Phe Ser Leu Val Leu Ile Lys
 100 105 110
 Pro Pro Phe Arg Val Gly Phe Ser Val Leu Phe
 115 120

<210> 1030

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1030

Met Ser Ala Leu Ser Phe Thr Ser Tyr Phe Leu Leu Leu Arg Val
 1 5 10 15
 Lys Pro Val Glu Val Ser Gly Ser Ile Pro His Pro Glu Gln Pro Asn

590

Leu Gln Phe Asp Asp Asn Gly Thr Tyr Thr Cys Gln Val Lys Asn Pro
 115 120 125
 Pro Asp Val Asp Gly Val Ile Gly Asp Ile Arg Leu Xaa Val Val His
 130 135 140
 Thr Val Arg Phe Ser Glu Ile His Phe Leu Ala Leu Ala Ile Gly Ser
 145 150 155 160
 Ala Cys Ala Leu Met Ile Ile Ile Val Ile Val Val Val Leu Phe Gln
 165 170 175
 His Tyr Arg Lys Lys Arg Trp Ala Glu Arg Ala His Lys Val Val Glu
 180 185 190
 Ile Lys Ser Lys Glu Glu Glu Arg Leu Asn Gln Glu Lys Lys Val Ser
 195 200 205
 Val Tyr Leu Glu Asp Thr Asp
 210 215

<210> 1033
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1033
 Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu
 1 5 10 15
 Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr
 20 25 30
 Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met
 35 40 45
 Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile
 50 55 60
 Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln
 65 70 75 80
 Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala
 85 90 95
 Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly
 100 105 110
 Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu
 115 120 125
 Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile
 130 135 140
 Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro
 145 150 155

<210> 1034
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 1034
 Met His Leu Phe Leu Phe Ile Trp Ala Phe Gly Leu Pro Leu His Ile
 1 5 10 15
 Ser Arg Asp Leu Ala Phe Phe Phe Leu Leu Tyr Phe Leu Phe Phe Tyr
 20 25 30
 Leu Leu Cys Val Leu Leu
 35

<210> 1035
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1035
 Met Leu Tyr Trp Gly Asn Val Ala Leu Val Leu Pro Thr Pro Tyr Leu
 1 5 10 15
 His Leu Ser Leu Thr Leu Leu Leu Ser Pro Glu Trp Leu Gly Glu Met
 20 25 30
 Gly Arg Gly Leu Pro Trp Pro Gly His Leu Val Ala Ala Trp Leu Asp
 35 40 45
 His Ile Ala Asn Glu Leu Gly Arg Gly Ala Ile Phe
 50 55 60

<210> 1036
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1036
 Met Asn Ala Ser Cys Ser Leu Ala His Phe Glu His Ser Gly Met Ser
 1 5 10 15
 Val Leu Leu Val His Leu Phe Ile Ile Val Ser Thr Val Pro Ser Cys
 20 25 30
 Phe Lys Lys Tyr Met Ala Phe Ile Ile Tyr Pro Ala Phe Ser Cys His
 35 40 45
 Phe Asn Lys Ser Met Cys Leu Ile Gln Leu Leu His Ser Ser Gln Lys
 50 55 60

<210> 1037

<211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1037
 Met Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile Gly Val Ile Cys Leu
 1 5 10 15
 Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp Gly Gly His Ser Tyr
 20 25 30
 Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala Leu Gly Glu Leu Tyr
 35 40 45
 Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys Glu Lys Ser Thr Ser
 50 55 60
 Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro Thr Asn Met Ser
 65 70 75

<210> 1038
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1038
 Met Phe Tyr Pro Pro Cys Pro Phe Phe Pro Gln Leu Cys Phe Cys Ile
 1 5 10 15
 Phe Phe Leu Gly Lys Cys Lys Leu Ser Leu Ser Phe Met Thr Cys Glu
 20 25 30
 Ile Ser Val Ser Leu Glu Phe Val Arg Arg Arg Gly Asn His Ala
 35 40 45

<210> 1039
 <211> 343
 <212> PRT
 <213> Homo sapiens

<400> 1039
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu
 1 5 10 15
 Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His
 20 25 30
 His Tyr Gly Pro Pro Pro Pro Pro Arg Ala Ala Phe Val Glu Gln Pro
 35 40 45
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly
 50 55 60
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala
 65 70 75 80
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser

| 85 | | | | | | | | | | 90 | | | | | 95 | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Ala | Ala | Ala | Glu | Arg | Leu | Ser | Val | Asp | Leu | Asp | Ser | Pro | Pro | Leu | Val | | | | |
| | | | 100 | | | | | 105 | | | | | | 110 | | | | | |
| Glu | Thr | Gly | Pro | Arg | Glu | Ala | Arg | Gln | Ala | Ala | Ser | Thr | Phe | Asn | Leu | | | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | | | |
| Met | Gln | Lys | Arg | Ile | Arg | Glu | Gln | Val | Ser | Gln | Arg | Ala | Arg | Met | Leu | | | | |
| | | 130 | | | | | 135 | | | | 140 | | | | | | | | |
| Gly | Ala | Val | Ser | His | Asp | Leu | Arg | Thr | Pro | Leu | Ser | Arg | Leu | Lys | Leu | | | | |
| | | 145 | | | 150 | | | | | 155 | | | | | 160 | | | | |
| Arg | Leu | Glu | Gln | Ile | Glu | Asp | Pro | Lys | Leu | Gln | Gly | Gln | Met | Arg | Gln | | | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | | | |
| Asp | Leu | Asp | Asp | Met | Ile | Gly | Met | Leu | Asp | Ala | Thr | Leu | Ser | Tyr | Leu | | | | |
| | | | 180 | | | | | 185 | | | | | | 190 | | | | | |
| His | Glu | Gln | Arg | Thr | Ser | Glu | Thr | Arg | His | Trp | Leu | Asp | Val | Gln | Ala | | | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | | | |
| Leu | Val | Glu | Ser | Leu | Ser | Glu | Asn | Ala | Gln | Asp | Gln | Gly | Arg | Asp | Val | | | | |
| | | 210 | | | | | 215 | | | | 220 | | | | | | | | |
| Gln | Phe | Ala | Gly | Thr | Cys | Thr | Pro | Leu | Gln | Val | Gln | Pro | Met | Ala | Leu | | | | |
| | | 225 | | | 230 | | | | | 235 | | | | | 240 | | | | |
| Arg | Ser | Cys | Leu | Asn | Asn | Leu | Ile | Asp | Asn | Ala | Leu | Arg | Tyr | Ala | Gly | | | | |
| | | | 245 | | | | | 250 | | | | | | 255 | | | | | |
| Thr | Ala | Arg | Val | Glu | Leu | Ala | Asp | Ser | Arg | Gly | Ala | Leu | Val | Ile | Arg | | | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | | | |
| Val | Ile | Asp | His | Gly | Pro | Gly | Ile | Ala | Ala | Asp | Lys | Arg | Glu | Ala | Val | | | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | | | |
| Phe | Glu | Pro | Phe | Phe | Arg | Leu | Glu | Gly | Ser | Arg | Asn | Arg | Asn | Ser | Gly | | | | |
| | | 290 | | | | 295 | | | | | 300 | | | | | | | | |
| Gly | Val | Gly | Leu | Gly | Met | Thr | Ile | Ala | Arg | Glu | Ala | Val | Glu | Arg | Leu | | | | |
| | | 305 | | | 310 | | | | | 315 | | | | | 320 | | | | |
| Gly | Gly | His | Leu | Ser | Leu | Glu | Asp | Thr | Pro | Gly | Gly | Gly | Leu | Thr | Ala | | | | |
| | | | 325 | | | | | 330 | | | | | | 335 | | | | | |
| Val | Met | Trp | Leu | Pro | Arg | Val | | | | | | | | | | | | | |
| | | | 340 | | | | | | | | | | | | | | | | |

<210> 1040
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 1040
 Met Gly Leu Phe Leu Phe Leu Val Ser Ser
 1 5 10

<210> 1041
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1041
 Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile
 1 5 10 15
 Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu
 20 25 30
 Lys Thr Val Thr His Ile Glu Gln
 35 40

<210> 1042
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1042
 Met Leu Ser Pro Lys Ser Pro Arg Met Leu Leu Pro Cys Leu Leu Gln
 1 5 10 15
 Pro Leu Val Val Ala Asn Ile Pro Arg Val Pro Trp Leu Ala Asp Glu
 20 25 30
 Ser Leu Asn Pro Thr Pro Ile Ile Thr Trp Gln Ser Pro Cys Val Ala
 35 40 45
 Gln Leu Cys Pro Asn Phe Pro Phe Pro Thr Arg Thr Leu Val Thr Gly
 50 55 60
 Leu
 65

<210> 1043
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1043
 Met Gln Lys Lys Lys Leu Val Cys Tyr Leu Met Leu Arg Gln Tyr Phe
 1 5 10 15
 Phe Leu Val Val Val Ser Leu Pro Trp Pro Cys Val Leu Phe Gln Met
 20 25 30
 His Tyr Pro Arg Thr Val Thr Pro Thr Leu Thr Glu Tyr
 35 40 45

<210> 1044
 <211> 274

<212> PRT

<213> Homo sapiens

<400> 1044

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Met Phe Tyr Ile Ile Gly Gly Val Ala Thr Leu Leu Leu Ile Leu Val
  1           5           10           15

Ile Ile Val Phe Lys Glu Lys Pro Lys Tyr Pro Pro Ser Arg Ala Gln
  20           25           30

Ser Leu Ser Tyr Ala Leu Thr Ser Pro Asp Ala Ser Tyr Leu Gly Ser
  35           40           45

Ile Ala Arg Leu Phe Lys Asn Leu Asn Phe Val Leu Leu Val Ile Thr
  50           55           60

Tyr Gly Leu Asn Ala Gly Ala Phe Tyr Ala Leu Ser Thr Leu Leu Asn
  65           70           75           80

Arg Met Val Ile Trp His Tyr Pro Gly Glu Glu Val Asn Ala Gly Arg
  85           90           95

Ile Gly Leu Thr Ile Val Ile Ala Gly Met Leu Gly Ala Val Ile Ser
  100          105          110

Gly Ile Trp Leu Asp Arg Ser Lys Thr Tyr Lys Glu Thr Thr Leu Val
  115          120          125

Val Tyr Ile Met Thr Leu Val Gly Met Val Val Tyr Thr Phe Thr Leu
  130          135          140

Asn Leu Gly His Leu Trp Val Val Phe Ile Thr Ala Gly Thr Met Gly
  145          150          155          160

Phe Phe Met Thr Gly Tyr Leu Pro Leu Gly Phe Glu Phe Ala Val Glu
  165          170          175

Leu Thr Tyr Pro Glu Ser Glu Gly Ile Ser Ser Gly Leu Leu Asn Ile
  180          185          190

Ser Ala Gln Val Phe Gly Ile Ile Phe Thr Ile Ser Gln Gly Gln Ile
  195          200          205

Ile Asp Asn Tyr Gly Thr Lys Pro Gly Asn Ile Phe Leu Cys Val Phe
  210          215          220

Leu Thr Leu Gly Ala Ala Leu Thr Ala Phe Ile Lys Ala Asp Leu Arg
  225          230          235          240

Arg Gln Lys Ala Asn Lys Glu Thr Leu Glu Asn Lys Leu Gln Glu Glu
  245          250          255

Glu Glu Glu Ser Asn Thr Ser Lys Val Pro Thr Ala Val Ser Glu Asp
  260          265          270

His Leu

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<210> 1045

<211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1045
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly
 1 5 10 15
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys
 20 25 30
 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe
 35 40 45
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val
 50 55 60
 Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg
 65 70 75 80
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro
 85 90 95
 Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Ser
 100 105 110
 Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu
 115 120 125
 Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro
 130 135 140
 Cys Arg
 145

<210> 1046
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (63)
 <223> Xaa equals any amino acid

<400> 1046
 Met Gly Ala Ala Lys Val Trp Gly Glu Val Gly Arg Trp Leu Val Ile
 1 5 10 15
 Ala Leu Ile Gln Leu Ala Lys Ala Val Leu Arg Met Leu Leu Leu
 20 25 30
 Trp Phe Lys Ala Gly Leu Gln Thr Ser Pro Pro Ile Val Pro Leu Asp
 35 40 45

Arg Glu Thr Arg His Ser Pro Arg Met Val Thr Thr Ala Xaa Xaa Thr
 50 55 60

Met Ser Ser Pro Thr Trp Gly Ser Gly Gln Thr Gly Trp Cys Glu Pro
 65 70 75 80

Ser Arg Thr Arg Arg Pro Cys Thr Pro Gly Thr Gly Glu Leu Pro Ser
 85 90 95

Ser Gly Arg Asp Gly Ser Ser Ser Ile Thr Arg Ser
 100 105

<210> 1047
 <211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any amino acid

<400> 1047
 Met Val Thr Phe Ala Ser Ser Thr Leu Trp Ile Ala Ala Phe Ser Tyr
 1 5 10 15

Met Met Val Trp Met Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30

Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Thr Ser Val Pro
 35 40 45

Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Xaa Met Gly Asp Xaa
 50 55 60

Ala Val Ser Asn Ser Ile Gly Ser Asn Val Phe Asp Ile Leu Ile Gly
 65 70 75 80

Leu Gly Leu Pro Trp Ala Leu Gln Thr Leu Ala Val Asp Tyr Gly Ser
 85 90 95

Tyr Ile Arg Leu Asn Ser Arg Gly Leu Ile Tyr Ser Val Gly Leu Leu
 100 105 110

Leu Ala Ser Val Phe Val Thr Val Phe Gly Val His Leu Asn Lys Trp
 115 120 125

Gln Leu Asp Xaa Lys Leu Gly Cys Gly Cys Leu Leu Leu Tyr Gly Val

130 135 140
 Phe Leu Cys Phe Ser Ile Met Thr Glu Phe Asn Val Phe Thr Phe Val
 145 150 155 160
 Asn Leu Pro Met Cys Gly Asp His
 165

 <210> 1048
 <211> 315
 <212> PRT
 <213> Homo sapiens

 <400> 1048
 Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu Tyr
 1 5 10 15
 Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Cys Thr Pro
 20 25 30
 Val Gly Leu Ser Arg Met Phe Thr Val Met Gly Gln Leu Leu Val Lys
 35 40 45
 Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr Leu
 50 55 60
 Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser Val
 65 70 75 80
 Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys Thr
 85 90 95
 Leu Lys Thr Lys Leu Asp Pro Trp Ser Ser Phe Ser Val Leu Gln Ser
 100 105 110
 Pro Val Trp His Phe Ala Ala Gln Thr Pro Ala Asp Ile Val Ser Pro
 115 120 125
 Asp Ser His Phe Met Leu Ser Thr Gln Gly Met Ser Trp Ala Gln Leu
 130 135 140
 Val Phe Leu Leu Pro Ala Ser Arg Pro Gly Asn Ser Gln Asp Lys Arg
 145 150 155 160
 Arg Lys Lys Ala Ser Ala Trp Glu Arg Asn Leu Val Tyr Pro Ala Val
 165 170 175
 Met Val Leu Leu Leu Ile Glu Thr Ser Ile Ser Val Leu Leu Val Ala
 180 185 190
 Cys Asn Ile Leu Cys Leu Leu Val Asp Glu Thr Ala Met Pro Lys Gly
 195 200 205
 Thr Arg Gly Pro Gly Ile Gly Asn Ala Ser Leu Ser Thr Phe Gly Phe
 210 215 220
 Val Gly Ala Ala Leu Glu Ile Ile Leu Ile Phe Tyr Leu Met Val Ser
 225 230 235 240

Ser Val Val Gly Phe Tyr Ser Leu Arg Phe Phe Gly Asn Phe Thr Pro
 245 250 255
 Lys Lys Asp Asp Thr Thr Met Thr Lys Ile Ile Gly Asn Cys Val Ser
 260 265 270
 Ile Leu Val Leu Ser Ser Ala Leu Pro Val Met Ser Arg Thr Leu Gly
 275 280 285
 Leu His Lys Leu His Leu Pro Asn Thr Ser Arg Asp Ser Glu Thr Ala
 290 295 300
 Lys Pro Ser Val Asn Gly His Gln Lys Ala Leu
 305 310 315

<210> 1049
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1049
 Met Asn Gln Leu Met Phe Gln Asp Leu Leu Cys Cys Leu Cys Leu Phe
 1 5 10 15
 Val Ile Gly Leu Ile Ser Leu Leu Arg Lys Thr Tyr Ser Cys Val Asn
 20 25 30
 Leu Cys Lys Val Met Leu Pro Val Lys Lys Tyr Ser Thr Val Ser Thr
 35 40 45
 Val Leu Cys Arg Asn Met Lys Leu Asn Gly Lys Asn Val Leu Met Phe
 50 55 60
 Val Val Met Leu Leu Gly Gln Trp Met Gly Lys Leu Pro Lys Leu Ser
 65 70 75 80
 Pro

<210> 1050
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1050
 Met Val Val Asp Leu Phe Phe Tyr Leu Leu Cys Ile Phe Leu Val Leu
 1 5 10 15
 Trp Val Leu Glu Ala Met Ile Lys His Leu Met Tyr Ser Asp Met Ser
 20 25 30
 Ala Leu Ile Ala Ser Phe Ser Ser Phe Leu Asn Cys Ile His Tyr Phe
 35 40 45
 Gln Asn Arg Tyr Arg Tyr Ser Val Pro Pro Phe Glu Leu Leu Ala Cys
 50 55 60

Ser Cys Phe Pro Leu Ser Pro Lys Gln Gly Phe Phe
 65 70 75

<210> 1051
 <211> 316
 <212> PRT
 <213> Homo sapiens

<400> 1051

Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu
 1 5 10 15
 Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala Val Pro
 20 25 30
 Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys
 35 40 45
 Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser
 50 55 60
 Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Ser Tyr Asp Asn Gly Phe
 65 70 75 80
 Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asp Gln
 85 90 95
 Lys Val Arg Arg Val Phe Val Arg Lys Val Tyr Thr Ile Leu Leu Ile
 100 105 110
 Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asp
 115 120 125
 Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser
 130 135 140
 Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly
 145 150 155 160
 Pro Arg Arg His Phe Pro Trp Asn Leu Ile Leu Leu Thr Val Phe Thr
 165 170 175
 Leu Ser Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr
 180 185 190
 Thr Ser Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser
 195 200 205
 Val Thr Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln
 210 215 220
 Gly Val Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile
 225 230 235 240
 Leu Ala Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val
 245 250 255
 Tyr Ala Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp
 260 265 270

Thr Gln Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu
 275 280 285
 Tyr Ile Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe
 290 295 300
 Thr Phe Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
 305 310 315

<210> 1052
 <211> 612
 <212> PRT
 <213> Homo sapiens

<400> 1052
 Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro
 1 5 10 15
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg
 20 25 30
 Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly
 35 40 45
 Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu
 50 55 60
 Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln
 65 70 75 80
 Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys Val Ser Phe Lys Asn His
 85 90 95
 Ser Ala Leu Ile Thr Ser Val Val Pro Gly Asp Tyr Asp Gly Asp Ser
 100 105 110
 Gln Met Asp Val Leu Leu Thr Tyr Leu Pro Lys Asn Tyr Ala Lys Ser
 115 120 125
 Glu Leu Gly Ala Val Ile Phe Trp Gly Gln Asn Gln Thr Leu Asp Pro
 130 135 140
 Asn Asn Met Thr Ile Leu Asn Arg Thr Phe Gln Asp Glu Pro Leu Ile
 145 150 155 160
 Met Asp Phe Asn Gly Asp Leu Ile Pro Asp Ile Phe Gly Ile Thr Asn
 165 170 175
 Glu Ser Asn Gln Pro Gln Ile Leu Leu Gly Gly Asn Leu Ser Trp His
 180 185 190
 Pro Ala Leu Thr Thr Thr Ser Lys Met Arg Ile Pro His Ser His Ala
 195 200 205
 Phe Ile Asp Leu Thr Glu Asp Phe Thr Ala Asp Leu Phe Leu Thr Thr
 210 215 220

Leu Asn Ala Thr Thr Ser Thr Phe Gln Phe Glu Ile Trp Glu Asn Leu
 225 230 235 240
 Asp Gly Asn Phe Ser Val Ser Thr Ile Leu Glu Lys Pro Gln Asn Met
 245 250 255
 Met Val Val Gly Gln Ser Ala Phe Ala Asp Phe Asp Gly Asp Gly His
 260 265 270
 Met Asp His Leu Leu Pro Gly Cys Glu Asp Lys Asn Cys Gln Lys Ser
 275 280 285
 Thr Ile Tyr Leu Val Arg Ser Gly Met Lys Gln Trp Val Pro Val Leu
 290 295 300
 Gln Asp Phe Ser Asn Lys Gly Thr Leu Trp Gly Phe Val Pro Phe Val
 305 310 315 320
 Asp Glu Gln Gln Pro Thr Glu Ile Pro Ile Pro Ile Thr Leu His Ile
 325 330 335
 Gly Asp Tyr Asn Met Asp Gly Tyr Pro Asp Ala Leu Val Ile Leu Lys
 340 345 350
 Asn Thr Ser Gly Ser Asn Gln Gln Ala Phe Leu Leu Glu Asn Val Pro
 355 360 365
 Cys Asn Asn Ala Ser Cys Glu Glu Ala Arg Arg Met Phe Lys Val Tyr
 370 375 380
 Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr
 385 390 395 400
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser
 405 410 415
 Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn
 420 425 430
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
 435 440 445
 Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln
 450 455 460
 Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu
 465 470 475 480
 Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala Leu
 485 490 495
 Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu
 500 505 510
 Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu Lys Ser Ile
 515 520 525
 Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val
 530 535 540
 Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr

545 550 555 560
 Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly
 565 570 575
 Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu
 580 585 590
 Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His
 595 600 605
 Phe Asp Ala Met
 610

<210> 1053
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1053
 Met Ser His Ser Val Phe Ala His Tyr Ile Phe Asn Ile Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Ile Gly Phe Leu Tyr Ser Met Pro Phe Ile
 20 25 30
 Tyr Lys Asp Thr Lys Lys Thr His Val Cys Asn Phe Asn Asn Ile Phe
 35 40 45
 Pro Ile Leu
 50

<210> 1054
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1054
 Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His
 1 5 10 15
 Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser
 20 25 30
 His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp
 35 40 45
 Thr Phe Asn His Asp
 50

<210> 1055
 <211> 578
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (326)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (342)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (444)
 <223> Xaa equals any amino acid

<400> 1055

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Phe | Arg | Leu | Leu | Ile | Pro | Leu | Gly | Leu | Leu | Cys | Ala | Leu | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Pro | Gln | His | His | Gly | Ala | Pro | Gly | Pro | Asp | Gly | Ser | Ala | Pro | Asp | Pro |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Ala | His | Tyr | Arg | Glu | Arg | Val | Lys | Ala | Met | Phe | Tyr | His | Ala | Tyr | Asp |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Ser | Tyr | Leu | Glu | Asn | Ala | Phe | Pro | Phe | Asp | Glu | Leu | Arg | Pro | Leu | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Cys | Asp | Gly | His | Asp | Thr | Trp | Gly | Ser | Phe | Ser | Leu | Thr | Leu | Ile | Asp |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Ala | Leu | Asp | Thr | Leu | Leu | Ile | Leu | Gly | Asn | Val | Ser | Glu | Phe | Gln | Arg |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Val | Val | Glu | Val | Leu | Gln | Asp | Ser | Val | Asp | Phe | Asp | Ile | Asp | Val | Asn |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Ala | Ser | Val | Phe | Glu | Thr | Asn | Ile | Arg | Val | Val | Gly | Gly | Leu | Leu | Ser |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Ala | His | Leu | Leu | Ser | Lys | Lys | Ala | Gly | Val | Glu | Val | Glu | Ala | Gly | Trp |
| | 130 | | | | | 135 | | | | | | 140 | | | |
| Pro | Cys | Ser | Gly | Pro | Leu | Leu | Arg | Met | Ala | Glu | Glu | Ala | Ala | Arg | Lys |
| 145 | | | | | 150 | | | | | 155 | | | | 160 | |
| Leu | Leu | Pro | Ala | Phe | Gln | Thr | Pro | Thr | Gly | Met | Pro | Tyr | Gly | Thr | Val |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Asn | Leu | Leu | His | Gly | Val | Asn | Pro | Gly | Glu | Thr | Pro | Val | Thr | Cys | Thr |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Ala | Gly | Ile | Gly | Thr | Phe | Ile | Val | Glu | Phe | Ala | Thr | Leu | Ser | Ser | Leu |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Thr | Gly | Asp | Pro | Val | Phe | Glu | Asp | Val | Ala | Arg | Val | Ala | Leu | Met | Arg |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Leu | Trp | Glu | Ser | Arg | Ser | Asp | Ile | Gly | Leu | Val | Gly | Asn | His | Ile | Asp |
| 225 | | | | | 230 | | | | | 235 | | | | 240 | |

Val Leu Thr Gly Lys Trp Val Ala Gln Asp Ala Gly Ile Gly Ala Gly
 245 250 255
 Val Asp Ser Tyr Phe Glu Tyr Leu Val Lys Gly Ala Ile Leu Leu Gln
 260 265 270
 Asp Lys Lys Leu Met Ala Met Phe Leu Glu Tyr Asn Lys Ala Ile Arg
 275 280 285
 Asn Tyr Thr Arg Phe Asp Asp Trp Tyr Leu Trp Val Gln Met Tyr Lys
 290 295 300
 Gly Thr Val Ser Met Pro Val Phe Gln Ser Leu Glu Ala Tyr Trp Pro
 305 310 315 320
 Gly Leu Gln Ser Leu Xaa Gly Asp Ile Asp Asn Ala Met Arg Thr Phe
 325 330 335
 Leu Asn Tyr Tyr Thr Xaa Trp Lys Gln Phe Gly Gly Leu Pro Glu Phe
 340 345 350
 Tyr Asn Ile Pro Gln Gly Tyr Thr Val Glu Lys Arg Glu Gly Tyr Pro
 355 360 365
 Leu Arg Pro Glu Leu Ile Glu Ser Ala Met Tyr Leu Tyr Arg Ala Thr
 370 375 380
 Gly Asp Pro Thr Leu Leu Glu Leu Gly Arg Asp Ala Val Glu Ser Ile
 385 390 395 400
 Glu Lys Ile Ser Lys Val Glu Cys Gly Phe Ala Thr Ile Lys Asp Leu
 405 410 415
 Arg Asp His Lys Leu Asp Asn Arg Met Glu Ser Phe Phe Leu Ala Glu
 420 425 430
 Thr Val Lys Tyr Leu Tyr Leu Leu Phe Asp Pro Xaa Asn Phe Ile His
 435 440 445
 Asn Asn Gly Ser Thr Phe Asp Ala Val Ile Thr Pro Tyr Gly Glu Cys
 450 455 460
 Ile Leu Gly Ala Gly Gly Tyr Ile Phe Asn Thr Glu Ala His Pro Ile
 465 470 475 480
 Asp Pro Ala Ala Leu His Cys Cys Gln Arg Leu Lys Glu Glu Gln Trp
 485 490 495
 Glu Val Glu Asp Leu Met Arg Glu Phe Tyr Ser Leu Lys Arg Ser Arg
 500 505 510
 Ser Lys Phe Gln Lys Asn Thr Val Ser Ser Gly Pro Trp Glu Pro Pro
 515 520 525
 Ala Arg Pro Gly Thr Leu Phe Ser Pro Glu Asn His Asp Gln Ala Arg
 530 535 540
 Glu Arg Lys Pro Ala Lys Gln Lys Val Pro Leu Leu Ser Cys Pro Ser
 545 550 555 560
 Gln Pro Phe Thr Ser Lys Leu Ala Leu Leu Gly Gln Val Phe Leu Asp

565

570

575

Ser Ser

<210> 1056

<211> 152

<212> PRT

<213> Homo sapiens

<400> 1056

Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu
 1 5 10 15

Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu
 20 25 30

Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly
 35 40 45

Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys
 50 55 60

Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr
 65 70 75 80

Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asn Ala
 85 90 95

Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His
 100 105 110

Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala
 115 120 125

Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln
 130 135 140

Gly Pro Ala Ala Arg Gly Thr Trp
 145 150

<210> 1057

<211> 196

<212> PRT

<213> Homo sapiens

<400> 1057

Met Ala Phe Arg Tyr Leu Ser Trp Ile Leu Phe Pro Leu Leu Gly Cys
 1 5 10 15

Tyr Ala Val Tyr Ser Leu Leu Tyr Leu Glu His Lys Gly Trp Tyr Ser
 20 25 30

Trp Val Leu Ser Met Leu Tyr Gly Phe Leu Leu Thr Phe Gly Phe Ile
 35 40 45

Thr Met Thr Pro Gln Leu Phe Ile Asn Tyr Lys Leu Lys Ser Val Ala

50 55 60
 His Leu Pro Trp Arg Met Leu Thr Tyr Lys Ala Leu Asn Thr Phe Ile
 65 70 75 80
 Asp Asp Leu Phe Ala Phe Val Ile Lys Met Pro Val Met Tyr Arg Ile
 85 90 95
 Gly Cys Leu Arg Asp Asp Val Val Phe Phe Ile Tyr Leu Tyr Gln Arg
 100 105 110
 Trp Ile Tyr Arg Val Asp Pro Thr Arg Val Asn Glu Phe Gly Met Ser
 115 120 125
 Gly Glu Asp Pro Thr Ala Ala Ala Pro Val Ala Glu Val Pro Thr Ala
 130 135 140
 Ala Gly Ala Leu Thr Pro Thr Pro Ala Pro Thr Thr Thr Thr Ala Thr
 145 150 155 160
 Arg Glu Glu Ala Ser Thr Ser Leu Pro Thr Lys Pro Thr Gln Gly Ala
 165 170 175
 Ser Ser Ala Ser Glu Pro Gln Glu Ala Pro Pro Lys Pro Ala Glu Asp
 180 185 190
 Lys Lys Lys Asp
 195

<210> 1058
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1058
 Met His Cys His Ser Ala Leu Gly Pro Met Ser Thr Pro Val Leu Pro
 1 5 10 15
 Phe Ser Gly Ile Gly Leu Ala Phe Leu Cys Leu Cys Leu Ala Ala Ser
 20 25 30
 Met Val Asp Leu Lys Cys Leu Gly Met Asn Ser Thr Leu Leu Gln Pro
 35 40 45
 Ser Ile Lys Glu
 50

<210> 1059
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1059
 Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Phe
 1 5 10 15
 Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile

20 25 30
 Ile Ser Cys Leu Leu Leu Ser Lys Cys Phe Glu Gly Leu Glu Leu Met
 35 40 45
 Cys Glu His Leu Tyr Gln Leu Ser Gln Leu His Val Leu His His Ile
 50 55 60
 Phe Ser Tyr Leu Leu Cys Thr Pro
 65 70

<210> 1060
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1060
 Met Gly Val Arg Trp Tyr Leu Ile Val Leu Val Cys Ile Ser Leu Ile
 1 5 10 15
 Ile Ser Asp Val Gln Tyr Phe Phe Thr Cys Leu Leu Val Ile Cys Ile
 20 25 30
 Ser Ser Leu Glu Lys Tyr Leu Phe Asn Ser Phe Ala His Phe Lys Ile
 35 40 45
 Arg Leu Phe Gly Phe Leu Leu Leu Met Leu Ser Cys Arg Ser Ser Leu
 50 55 60
 Tyr Ile Leu Asp Ile His Pro Ser Tyr Ile
 65 70

<210> 1061
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1061
 Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu
 1 5 10 15
 Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn
 20 25 30
 Phe Gly Phe Lys Trp Leu Lys Asp
 35 40

<210> 1062
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1062
 Met His Pro Trp Arg Leu Ser Met Cys Pro Ala Cys Val Leu Ala Ala
 1 5 10 15

Leu Pro Ala Leu Cys Ser Cys Leu Cys Ser Pro Asp Ala Arg Pro Pro
 20 25 30
 His Gly Trp Met Ser Met Pro Phe Thr Pro His Pro Leu Val Ser Arg
 35 40 45
 Ala Met Pro Thr Cys His Pro Cys Ser
 50 55

<210> 1063
 <211> 937
 <212> PRT
 <213> Homo sapiens

<400> 1063
 Met Gln Asn Ser Gly Lys Thr Lys Phe Lys Arg Thr Ser Ile Asp Arg
 1 5 10 15
 Leu Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu
 20 25 30
 Gly Ile Ile Leu Ala Ile Gly Asn Ser Ile Trp Glu Ser Gln Thr Gly
 35 40 45
 Asp Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser
 50 55 60
 Val Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn
 65 70 75 80
 Thr Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu
 85 90 95
 Gly His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr Ser Arg
 100 105 110
 Lys Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu Glu Leu
 115 120 125
 Gly Gln Ile Glu Tyr Ile Phe Ser Asp Lys Thr Gly Thr Leu Thr Gln
 130 135 140
 Asn Ile Met Thr Phe Lys Arg Cys Ser Ile Asn Gly Arg Ile Tyr Gly
 145 150 155 160
 Glu Val His Asp Asp Leu Asp Gln Lys Thr Glu Ile Thr Gln Glu Lys
 165 170 175
 Glu Pro Val Asp Phe Ser Val Lys Ser Gln Ala Asp Arg Glu Phe Gln
 180 185 190
 Phe Phe Asp His Asn Leu Met Glu Ser Ile Lys Met Gly Asp Pro Lys
 195 200 205
 Val His Glu Phe Leu Arg Leu Leu Ala Leu Cys His Thr Val Met Ser
 210 215 220
 Glu Glu Asn Ser Ala Gly Glu Leu Ile Tyr Gln Val Gln Ser Pro Asp

| | | | | | | |
|---|---|-----|-----|-----|-----|-----|
| 225 | | 230 | | 235 | | 240 |
| Glu Gly Ala Leu Val Thr | Ala Ala Arg Asn Phe Gly Phe Ile Phe Lys | | | | | |
| | 245 | | 250 | | 255 | |
| Ser Arg Thr Pro Glu Thr Ile Thr Ile Glu Glu Leu Gly Thr Leu Val | | | | | | |
| | 260 | | 265 | | 270 | |
| Thr Tyr Gln Leu Leu Ala Phe Leu Asp Phe Asn Asn Thr Arg Lys Arg | | | | | | |
| | 275 | | 280 | | 285 | |
| Met Ser Val Ile Val Arg Asn Pro Glu Gly Gln Ile Lys Leu Tyr Ser | | | | | | |
| | 290 | | 295 | | 300 | |
| Lys Gly Ala Asp Thr Ile Leu Phe Glu Lys Leu His Pro Ser Asn Glu | | | | | | |
| 305 | | 310 | | 315 | | 320 |
| Val Leu Leu Ser Leu Thr Ser Asp His Leu Ser Glu Phe Ala Gly Glu | | | | | | |
| | 325 | | 330 | | 335 | |
| Gly Leu Arg Thr Leu Ala Ile Ala Tyr Arg Asp Leu Asp Asp Lys Tyr | | | | | | |
| | 340 | | 345 | | 350 | |
| Phe Lys Glu Trp His Lys Met Leu Glu Asp Ala Asn Val Ala Thr Glu | | | | | | |
| | 355 | | 360 | | 365 | |
| Glu Arg Asp Glu Arg Ile Ala Gly Leu Tyr Glu Glu Ile Glu Arg Asp | | | | | | |
| | 370 | | 375 | | 380 | |
| Leu Met Leu Leu Gly Ala Thr Ala Val Glu Asp Lys Leu Gln Glu Gly | | | | | | |
| 385 | | 390 | | 395 | | 400 |
| Val Ile Glu Thr Val Thr Ser Leu Ser Leu Ala Asn Ile Lys Ile Trp | | | | | | |
| | 405 | | 410 | | 415 | |
| Val Leu Thr Gly Asp Lys Gln Glu Thr Ala Ile Asn Ile Gly Tyr Ala | | | | | | |
| | 420 | | 425 | | 430 | |
| Cys Asn Met Leu Thr Asp Asp Met Asn Asp Val Phe Val Ile Ala Gly | | | | | | |
| | 435 | | 440 | | 445 | |
| Asn Asn Ala Val Glu Val Arg Glu Glu Leu Arg Lys Ala Lys Gln Asn | | | | | | |
| | 450 | | 455 | | 460 | |
| Leu Phe Gly Gln Asn Arg Asn Phe Ser Asn Gly His Val Val Cys Glu | | | | | | |
| 465 | | 470 | | 475 | | 480 |
| Lys Lys Gln Gln Leu Glu Leu Asp Ser Ile Val Glu Glu Thr Ile Thr | | | | | | |
| | 485 | | 490 | | 495 | |
| Gly Asp Tyr Ala Leu Ile Ile Asn Gly His Ser Leu Ala His Ala Leu | | | | | | |
| | 500 | | 505 | | 510 | |
| Glu Ser Asp Val Lys Asn Asp Leu Leu Glu Leu Ala Cys Met Cys Lys | | | | | | |
| | 515 | | 520 | | 525 | |
| Thr Val Ile Cys Cys Arg Val Thr Pro Leu Gln Lys Ala Gln Val Val | | | | | | |
| | 530 | | 535 | | 540 | |
| Glu Leu Val Lys Lys Tyr Arg Asn Ala Val Thr Leu Ala Ile Gly Asp | | | | | | |
| 545 | | 550 | | 555 | | 560 |

Gly Ala Asn Asp Val Ser Met Ile Lys Ser Ala His Ile Gly Val Gly
 565 570 575
 Ile Ser Gly Gln Glu Gly Leu Gln Ala Val Leu Ala Ser Asp Tyr Ser
 580 585 590
 Phe Ala Gln Phe Arg Tyr Leu Gln Arg Leu Leu Leu Val His Gly Arg
 595 600 605
 Trp Ser Tyr Phe Arg Met Cys Lys Phe Leu Cys Tyr Phe Phe Tyr Lys
 610 615 620
 Asn Phe Ala Phe Thr Leu Val His Phe Trp Phe Gly Phe Phe Cys Gly
 625 630 635 640
 Phe Ser Ala Gln Thr Val Tyr Asp Gln Trp Phe Ile Thr Leu Phe Asn
 645 650 655
 Ile Val Tyr Thr Ser Leu Pro Val Leu Ala Met Gly Ile Phe Asp Gln
 660 665 670
 Asp Val Ser Asp Gln Asn Ser Val Asp Cys Pro Gln Leu Tyr Lys Pro
 675 680 685
 Gly Gln Leu Asn Leu Leu Phe Asn Lys Arg Lys Phe Phe Ile Cys Val
 690 695 700
 Met His Gly Ile Tyr Thr Ser Leu Val Leu Phe Phe Ile Pro Tyr Gly
 705 710 715 720
 Ala Phe Tyr Asn Val Ala Gly Glu Asp Gly Gln His Ile Ala Asp Tyr
 725 730 735
 Gln Ser Phe Ala Val Thr Met Ala Thr Ser Leu Val Ile Val Val Ser
 740 745 750
 Val Gln Ile Ala Leu Asp Thr Ser Tyr Trp Thr Phe Ile Asn His Val
 755 760 765
 Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile Leu Phe Thr Met
 770 775 780
 His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln Phe Pro Phe Val
 785 790 795 800
 Gly Asn Ala Arg His Ser Leu Thr Gln Lys Cys Ile Trp Leu Val Ile
 805 810 815
 Leu Leu Thr Thr Val Ala Ser Val Met Pro Val Val Ala Phe Arg Phe
 820 825 830
 Leu Lys Val Asp Leu Tyr Pro Thr Leu Ser Asp Gln Ile Arg Arg Trp
 835 840 845
 Gln Lys Ala Gln Lys Lys Ala Arg Pro Pro Ser Ser Arg Arg Pro Arg
 850 855 860
 Thr Arg Arg Ser Ser Ser Arg Arg Ser Gly Tyr Ala Phe Ala His Gln
 865 870 875 880

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<210> 1064
<211> 94
<212> PRT
<213> Homo sapiens
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<210> 1065
<211> 484
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE.
<222> (345)
<223> Xaa equals any amino acid
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<400> 1065

Met Val Ala Thr Val Cys Gly Leu Leu Val Phe Leu Ser Leu Gly Leu
 1 5 10 15
 Val Pro Pro Val Arg Cys Leu Phe Ala Leu Ser Val Pro Thr Leu Gly
 20 25 30
 Met Glu Gln Gly Arg Arg Leu Leu Ser Tyr Ser Thr Ala Thr Leu
 35 40 45
 Ala Ile Ala Val Val Pro Asn Val Leu Ala Asn Val Gly Ala Ala Gly
 50 55 60
 Gln Val Leu Arg Cys Val Thr Glu Gly Ser Leu Glu Ser Leu Leu Asn
 65 70 75 80
 Thr Thr His Gln Leu His Ala Ala Ser Arg Ala Leu Gly Pro Thr Gly
 85 90 95
 Gln Ala Gly Ser Arg Gly Leu Thr Phe Glu Ala Gln Asp Asn Gly Ser
 100 105 110
 Ala Phe Tyr Leu His Met Leu Thr Val Thr Gln Gln Val Leu Glu Asp
 115 120 125
 Phe Ser Gly Leu Glu Ser Leu Ala Arg Ala Ala Ala Leu Gly Thr Gln
 130 135 140
 Arg Val Val Thr Gly Leu Phe Met Leu Gly Leu Leu Val Glu Ser Ala
 145 150 155 160
 Trp Tyr Leu His Cys Tyr Leu Thr Asp Leu Arg Phe Asp Asn Ile Tyr
 165 170 175
 Ala Thr Gln Gln Leu Thr Gln Arg Leu Ala Gln Ala Gln Ala Thr His
 180 185 190
 Leu Leu Ala Pro Pro Pro Thr Trp Leu Leu Gln Ala Ala Gln Leu Arg
 195 200 205
 Leu Ser Gln Glu Glu Leu Leu Ser Cys Leu Leu Arg Leu Gly Leu Leu
 210 215 220
 Ala Leu Leu Leu Val Ala Thr Ala Val Ala Val Ala Thr Asp His Val
 225 230 235 240
 Ala Phe Leu Leu Ala Gln Ala Thr Val Asp Trp Ala Gln Lys Leu Pro
 245 250 255
 Thr Val Pro Ile Thr Leu Thr Val Lys Tyr Asp Val Ala Tyr Thr Val
 260 265 270
 Leu Gly Phe Ile Pro Phe Leu Phe Asn Gln Leu Ala Pro Glu Ser Pro
 275 280 285
 Phe Leu Ser Val His Ser Ser Tyr Gln Trp Glu Leu Arg Leu Thr Ser
 290 295 300
 Ala Arg Cys Pro Leu Leu Pro Ala Arg Arg Pro Arg Ala Ala Ala Pro
 305 310 315 320
 Leu Xaa Ala Gly Gly Leu Gln Leu Leu Ala Gly Ser Thr Val Leu Leu

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<210> 1066
<211> 151
<212> PRT
<213> Homo sapiens

<400> 1066
Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp
  1             5             10             15
Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys
             20             25             30
Ile Ala Arg Arg Leu Val Asp Asp Thr Asp Ala Met Ser Asn Ala Cys
             35             40             45
Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile Val Val Ser Ala Phe
  50             55             60
Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu Met Gly Arg Leu Pro
  65             70             75             80
Phe Phe Ser Lys Met Gly Thr Ala Glu Ser Glu Gly Arg Glu Thr Leu
             85             90             95
Thr Gln Gln Leu Pro Leu Pro Ala Ala Ala Met Arg Arg Leu Leu Pro
  100             105             110

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Ala Ser Arg Val Ser Thr Gln Pro Val Leu Arg Leu Ala Asp Ser Ala
 115 120 125
 Glu Ser Leu Leu Gly Arg Pro Ala Leu Trp Ala Leu Gly Phe Leu Leu
 130 135 140
 Cys Pro Pro Ser Gln Ala Gln
 145 150

<210> 1067
 <211> 242
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any amino acid

<400> 1067
 Met Glu Gln Ala Arg Lys Ser Ser Thr Val Ser Leu Leu Ile Thr Val
 1 5 10 15
 Leu Phe Ala Val Ala Phe Ser Val Leu Leu Leu Ser Cys Lys Asp His
 20 25 30
 Val Gly Tyr Ile Phe Thr Thr Asp Arg Asp Ile Ile Asn Leu Val Ala
 35 40 45
 Gln Val Val Pro Ile Tyr Ala Val Ser His Leu Phe Glu Ala Leu Ala
 50 55 60
 Cys Thr Ser Gly Gly Val Leu Arg Gly Ser Gly Asn Gln Lys Val Gly
 65 70 75 80
 Ala Ile Val Asn Thr Ile Gly Xaa Tyr Val Val Gly Leu Pro Ile Gly
 85 90 95
 Ile Ala Leu Met Phe Ala Thr Thr Leu Gly Val Met Gly Leu Trp Ser
 100 105 110
 Gly Ile Ile Ile Cys Thr Val Phe Gln Ala Val Cys Phe Leu Gly Phe
 115 120 125
 Ile Ile Gln Leu Asn Trp Lys Lys Ala Cys Xaa Gln Ala Gln Val His
 130 135 140
 Ala Asn Leu Lys Val Asn Asn Val Pro Arg Ser Gly Asn Ser Ala Leu
 145 150 155 160
 Pro Gln Asp Pro Leu His Pro Gly Cys Pro Glu Asn Leu Glu Gly Ile
 165 170 175
 Leu Thr Asn Asp Val Gly Lys Thr Gly Glu Pro Gln Ser Asp Gln Gln

180 185 190
 Met Arg Gln Glu Glu Pro Leu Pro Glu His Pro Gln Asp Gly Ala Lys
 195 200 205
 Leu Ser Arg Lys Gln Leu Val Leu Arg Arg Gly Leu Leu Leu Leu Gly
 210 215 220
 Val Phe Leu Ile Leu Leu Val Gly Ile Leu Val Arg Phe Tyr Val Arg
 225 230 235 240
 Ile Gln

<210> 1068
 <211> 567
 <212> PRT
 <213> Homo sapiens

<400> 1068
 Met Ala Pro Leu Ala Leu His Leu Leu Val Leu Val Pro Ile Leu Leu
 1 5 10 15
 Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro
 20 25 30
 Phe Glu Lys Cys Met Gln Asp Pro Asp Tyr Glu Gln Leu Leu Lys Val
 35 40 45
 Val Thr Trp Gly Leu Asn Arg Thr Leu Lys Pro Gln Arg Val Ile Val
 50 55 60
 Val Gly Ala Gly Val Ala Gly Leu Val Ala Ala Lys Val Leu Ser Asp
 65 70 75 80
 Ala Gly His Lys Val Thr Ile Leu Glu Ala Asp Asn Arg Ile Gly Gly
 85 90 95
 Arg Ile Phe Thr Tyr Arg Asp Gln Asn Thr Gly Trp Ile Gly Glu Leu
 100 105 110
 Gly Ala Met Arg Met Pro Ser Ser His Arg Ile Leu His Lys Leu Cys
 115 120 125
 Gln Gly Leu Gly Leu Asn Leu Thr Lys Phe Thr Gln Tyr Asp Lys Asn
 130 135 140
 Thr Trp Thr Glu Val His Glu Val Lys Leu Arg Asn Tyr Val Val Glu
 145 150 155 160
 Lys Val Pro Glu Lys Leu Gly Tyr Ala Leu Arg Pro Gln Glu Lys Gly
 165 170 175
 His Ser Pro Glu Asp Ile Tyr Gln Met Ala Leu Asn Gln Ala Leu Lys
 180 185 190
 Asp Leu Lys Ala Leu Gly Cys Arg Lys Ala Met Lys Lys Phe Glu Arg
 195 200 205

His Thr Leu Leu Glu Tyr Leu Leu Gly Glu Gly Asn Leu Ser Arg Pro
 210 215 220
 Ala Val Gln Leu Leu Gly Asp Val Met Ser Glu Asp Gly Phe Phe Tyr
 225 230 235 240
 Leu Ser Phe Ala Glu Ala Leu Arg Ala His Ser Cys Leu Ser Asp Arg
 245 250 255
 Leu Gln Tyr Ser Arg Ile Val Gly Gly Trp Asp Leu Leu Pro Arg Ala
 260 265 270
 Leu Leu Ser Ser Leu Ser Gly Leu Val Leu Leu Asn Ala Pro Val Val
 275 280 285
 Ala Met Thr Gln Gly Pro His Asp Val His Val Gln Ile Glu Thr Ser
 290 295 300
 Pro Pro Ala Arg Asn Leu Lys Val Leu Lys Ala Asp Val Val Leu Leu
 305 310 315 320
 Thr Ala Ser Gly Pro Ala Val Lys Arg Ile Thr Phe Ser Pro Pro Leu
 325 330 335
 Pro Arg His Met Gln Glu Ala Leu Arg Arg Leu His Tyr Val Pro Ala
 340 345 350
 Thr Lys Val Phe Leu Ser Phe Arg Arg Pro Phe Trp Arg Glu Glu His
 355 360 365
 Ile Glu Gly Gly His Ser Asn Thr Asp Arg Pro Ser Arg Met Ile Phe
 370 375 380
 Tyr Pro Pro Pro Arg Glu Gly Ala Leu Leu Leu Ala Ser Tyr Thr Trp
 385 390 395 400
 Ser Asp Ala Ala Ala Ala Phe Ala Gly Leu Ser Arg Glu Glu Ala Leu
 405 410 415
 Arg Leu Ala Leu Asp Asp Val Ala Ala Leu His Gly Pro Val Val Arg
 420 425 430
 Gln Leu Trp Asp Gly Thr Gly Val Val Lys Arg Trp Ala Glu Asp Gln
 435 440 445
 His Ser Gln Gly Gly Phe Val Val Gln Pro Pro Ala Leu Trp Gln Thr
 450 455 460
 Glu Lys Asp Asp Trp Thr Val Pro Tyr Gly Arg Ile Tyr Phe Ala Gly
 465 470 475 480
 Glu His Thr Ala Tyr Pro His Gly Trp Val Glu Thr Ala Val Lys Ser
 485 490 495
 Ala Leu Arg Ala Ala Ile Lys Ile Asn Ser Arg Lys Gly Pro Ala Ser
 500 505 510
 Asp Thr Ala Ser Pro Glu Gly His Ala Ser Asp Met Glu Gly Gln Gly
 515 520 525
 His Val His Gly Val Ala Ser Ser Pro Ser His Asp Leu Ala Lys Glu

530

535

540

Glu Gly Ser His Pro Pro Val Gln Gly Gln Leu Ser Leu Gln Asn Thr
 545 550 555 560

Thr His Thr Arg Thr Ser His
 565

<210> 1069

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1069

Met Phe Ala Pro Cys Phe Val Asn Leu Ala Leu Phe Tyr Leu Tyr Ile
 1 5 10 15

Asn Ser Cys Asn Leu Leu Asn Leu Thr Ser Ile Asp Pro Phe Gln Gln
 20 25 30

Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser
 35 40 45

<210> 1070

<211> 200

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (149)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (160)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (173)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (177)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (189)

<223> Xaa equals any amino acid

<400> 1070

Met Phe Phe Leu Leu Cys Leu Val Ala Leu Glu Ile Lys Gly Phe Thr
 1 5 10 15

Phe Ser Ala Arg Gly Ala Arg Asp Arg Phe Leu Asn Lys Ser Gly Pro
 20 25 30

Gln Pro Gly Lys Lys Met Lys Thr Thr His Cys Lys Gln Pro Leu Phe
 35 40 45

Ser Lys Pro Gly Gln Val Arg Gly Ala Leu Arg Lys Ala Arg Gly Arg
 50 55 60

Gln Glu Glu Arg Glu Ala Val Gly Met Trp Gly Gly Arg Gly His Ser
 65 70 75 80

Tyr Pro Glu Tyr Ile Lys Thr Ser Glu Val Thr Glu Val Arg Asp Ser
 85 90 95

Pro Lys His Pro Gln Val Gln Pro Phe Leu Thr Thr Arg Val Thr Cys
 100 105 110

Arg Val Pro Gly His Leu Gln Val Leu Glu Ala Leu Cys Gly Ala Trp
 115 120 125

Gly Ser Met Phe Lys His Ala Leu Val Val Val Gln Val Pro Arg Xaa
 130 135 140

Arg Gly Arg Ala Xaa Leu Gly Ser Glu Trp Gln Val Gly Gln Leu Xaa
 145 150 155 160

Leu Ile Leu Leu His Gly Thr Gln His Trp Ala Ala Xaa Leu Val Pro
 165 170 175

Xaa Leu Pro Gln Glu Ser Ile Leu Pro Ala Gln Ser Xaa Arg Val Thr
 180 185 190

Asn Thr Pro Gly Thr Glu Glu Thr
 195 200

<210> 1071

<211> 369

<212> PRT

<213> Homo sapiens

<400> 1071

Met Leu Gly Ala Phe Val Trp Pro Ser Leu Leu Leu Ala Ala Ala
 1 5 10 15

Cys Ile Cys Leu Leu Thr Phe Ile Asn Cys Ala Tyr Val Lys Trp Gly
 20 25 30

Thr Leu Val Gln Asp Ile Phe Thr Tyr Ala Lys Val Leu Ala Leu Ile
 35 40 45

Ala Val Ile Val Ala Gly Ile Val Arg Leu Gly Gln Gly Ala Ser Thr
 50 55 60
 His Phe Glu Asn Ser Phe Glu Gly Ser Ser Phe Ala Val Gly Asp Ile
 65 70 75 80
 Ala Leu Ala Leu Tyr Ser Ala Leu Phe Ser Tyr Ser Gly Trp Asp Thr
 85 90 95
 Leu Asn Tyr Val Thr Glu Glu Ile Lys Asn Pro Glu Arg Asn Leu Pro
 100 105 110
 Leu Ser Ile Gly Ile Ser Met Pro Ile Val Thr Ile Ile Tyr Ile Leu
 115 120 125
 Thr Asn Val Ala Tyr Tyr Thr Val Leu Asp Met Arg Asp Ile Leu Ala
 130 135 140
 Ser Asp Ala Val Ala Val Thr Phe Ala Asp Gln Ile Phe Gly Ile Phe
 145 150 155 160
 Asn Trp Ile Ile Pro Leu Ser Val Ala Leu Ser Cys Phe Gly Gly Leu
 165 170 175
 Asn Ala Ser Ile Val Ala Ala Ser Arg Leu Phe Phe Val Gly Ser Arg
 180 185 190
 Glu Gly His Leu Pro Asp Ala Ile Cys Met Ile His Val Glu Arg Phe
 195 200 205
 Thr Pro Val Pro Ser Leu Leu Phe Asn Gly Ile Met Ala Leu Ile Tyr
 210 215 220
 Leu Cys Val Glu Asp Ile Phe Gln Leu Ile Asn Tyr Tyr Ser Phe Ser
 225 230 235 240
 Tyr Trp Phe Phe Val Gly Leu Ser Ile Val Gly Gln Leu Tyr Leu Arg
 245 250 255
 Trp Lys Glu Pro Asp Arg Pro Arg Pro Leu Lys Leu Ser Val Phe Phe
 260 265 270
 Pro Ile Val Phe Cys Leu Cys Thr Ile Phe Leu Val Ala Val Pro Leu
 275 280 285
 Tyr Ser Asp Thr Ile Asn Ser Leu Ile Gly Ile Ala Ile Ala Leu Ser
 290 295 300
 Gly Leu Pro Phe Tyr Phe Leu Ile Ile Arg Val Pro Glu His Lys Arg
 305 310 315 320
 Pro Leu Tyr Leu Arg Arg Ser Trp Gly Leu Pro Gln Gly Thr Ser Arg
 325 330 335
 Ser Cys Val Cys Gln Leu Leu Gln Lys Trp Ile Trp Lys Met Glu Glu
 340 345 350
 Arg Cys Pro Ser Asn Gly Ile Pro Ser Leu Thr Lys His His Leu Glu
 355 360 365

Ser

<210> 1072
 <211> 526
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (466)
 <223> Xaa equals any amino acid

<400> 1072
 Met Ala Ala Leu Thr Ile Ala Thr Gly Thr Gly Asn Trp Phe Ser Ala
 1 5 10 15
 Leu Ala Leu Gly Val Thr Leu Leu Lys Cys Leu Leu Ile Pro Thr Tyr
 20 25 30
 His Ser Thr Asp Phe Glu Val His Arg Asn Trp Leu Ala Ile Thr His
 35 40 45
 Ser Leu Pro Ile Ser Gln Trp Tyr Tyr Glu Ala Thr Ser Glu Trp Thr
 50 55 60
 Leu Asp Tyr Pro Pro Phe Phe Ala Trp Phe Glu Tyr Ile Leu Ser His
 65 70 75 80
 Val Ala Lys Tyr Phe Asp Gln Glu Met Leu Asn Val His Asn Leu Asn
 85 90 95
 Tyr Ser Ser Ser Arg Thr Leu Leu Phe Gln Arg Phe Ser Val Ile Phe
 100 105 110
 Met Asp Val Leu Phe Val Tyr Ala Val Arg Glu Cys Cys Lys Cys Ile
 115 120 125
 Asp Gly Lys Lys Val Gly Lys Glu Leu Thr Glu Lys Pro Lys Phe Ile
 130 135 140
 Leu Ser Val Leu Leu Leu Trp Asn Phe Gly Leu Leu Ile Val Asp His
 145 150 155 160
 Ile His Phe Gln Tyr Asn Gly Phe Leu Phe Gly Leu Met Leu Leu Ser
 165 170 175
 Ile Ala Arg Leu Phe Gln Lys Arg His Met Glu Gly Ala Phe Leu Phe
 180 185 190
 Ala Val Leu Leu His Phe Lys His Ile Tyr Leu Tyr Val Ala Pro Ala
 195 200 205
 Tyr Gly Val Tyr Leu Leu Arg Ser Tyr Cys Phe Thr Ala Asn Lys Pro
 210 215 220
 Asp Gly Ser Ile Arg Trp Lys Ser Phe Ser Phe Val Arg Val Ile Ser
 225 230 235 240
 Leu Gly Leu Val Val Phe Leu Val Ser Ala Leu Ser Leu Gly Pro Phe

| | | |
|---|-----|-----|
| 245 | 250 | 255 |
| Leu Ala Leu Asn Gln Leu Pro Gln Val Phe Ser Arg Leu Phe Pro Phe | | |
| 260 | 265 | 270 |
| Lys Arg Gly Leu Cys His Ala Tyr Trp Ala Pro Asn Phe Trp Ala Leu | | |
| 275 | 280 | 285 |
| Tyr Asn Ala Leu Asp Lys Val Leu Ser Val Ile Gly Leu Lys Leu Lys | | |
| 290 | 295 | 300 |
| Phe Leu Asp Pro Asn Asn Ile Pro Lys Ala Ser Met Thr Ser Gly Leu | | |
| 305 | 310 | 315 |
| Val Gln Gln Phe Gln His Thr Val Leu Pro Ser Val Thr Pro Leu Ala | | |
| 325 | 330 | 335 |
| Thr Leu Ile Cys Thr Leu Ile Ala Ile Leu Pro Ser Ile Phe Cys Leu | | |
| 340 | 345 | 350 |
| Trp Phe Lys Pro Gln Gly Pro Arg Gly Phe Leu Arg Cys Leu Thr Leu | | |
| 355 | 360 | 365 |
| Cys Ala Leu Ser Ser Phe Met Phe Gly Trp His Val His Glu Lys Ala | | |
| 370 | 375 | 380 |
| Ile Leu Leu Ala Ile Leu Pro Met Ser Leu Leu Ser Val Gly Lys Ala | | |
| 385 | 390 | 395 |
| Gly Asp Ala Ser Ile Phe Leu Ile Leu Thr Thr Thr Gly His Tyr Ser | | |
| 405 | 410 | 415 |
| Leu Phe Pro Leu Leu Phe Thr Ala Pro Glu Leu Pro Ile Lys Ile Leu | | |
| 420 | 425 | 430 |
| Leu Met Leu Leu Phe Thr Ile Tyr Ser Ile Ser Ser Leu Lys Thr Leu | | |
| 435 | 440 | 445 |
| Phe Arg Lys Glu Lys Pro Leu Phe Asn Trp Met Glu Thr Phe Tyr Leu | | |
| 450 | 455 | 460 |
| Leu Xaa Leu Gly Pro Leu Glu Val Cys Cys Glu Phe Val Phe Pro Phe | | |
| 465 | 470 | 475 |
| Thr Ser Trp Lys Val Lys Tyr Pro Phe Ile Pro Leu Leu Leu Thr Ser | | |
| 485 | 490 | 495 |
| Val Tyr Cys Ala Val Gly Ile Thr Tyr Ala Trp Phe Lys Leu Tyr Val | | |
| 500 | 505 | 510 |
| Ser Val Leu Ile Asp Ser Ala Ile Gly Lys Thr Lys Lys Gln | | |
| 515 | 520 | 525 |

<210> 1073

<211> 549

<212> PRT

<213> Homo sapiens

<400> 1073

Met Trp Leu Pro Leu Val Leu Leu Leu Ala Val Leu Leu Leu Ala Val
 1 5 10 15
 Leu Cys Lys Val Tyr Leu Gly Leu Phe Ser Gly Ser Ser Pro Asn Pro
 20 25 30
 Phe Ser Glu Asp Val Lys Arg Pro Pro Ala Pro Leu Val Thr Asp Lys
 35 40 45
 Glu Ala Arg Lys Lys Val Leu Lys Gln Gly Ile His Tyr Ile Gly Arg
 50 55 60
 Met Glu Glu Gly Ser Ile Gly Arg Phe Ile Leu Asp Gln Ile Thr Glu
 65 70 75 80
 Gly Gln Leu Asp Trp Ala Pro Leu Ser Ser Pro Phe Asp Ile Met Val
 85 90 95
 Leu Glu Gly Pro Asn Gly Arg Lys Glu Tyr Pro Met Tyr Ser Gly Glu
 100 105 110
 Lys Ala Tyr Ile Gln Gly Leu Lys Glu Lys Phe Pro Gln Glu Glu Ala
 115 120 125
 Ile Ile Asp Lys Tyr Ile Lys Leu Val Lys Val Val Ser Ser Gly Ala
 130 135 140
 Pro His Ala Ile Leu Leu Lys Phe Leu Pro Leu Pro Val Val Gln Leu
 145 150 155 160
 Leu Asp Arg Cys Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala
 165 170 175
 Ser Thr Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser
 180 185 190
 Glu Leu Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr
 195 200 205
 Pro Asn His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr
 210 215 220
 Met Lys Gly Gly Phe Tyr Pro Arg Gly Gly Ser Ser Glu Ile Ala Phe
 225 230 235 240
 His Thr Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys
 245 250 255
 Ala Thr Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly
 260 265 270
 Val Ser Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile
 275 280 285
 Val Val Ser Asn Ala Gly Leu Phe Asn Thr Tyr Glu His Leu Leu Pro
 290 295 300
 Gly Asn Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val
 305 310 315 320
 Arg Pro Gly Leu Gly Met Thr Ser Val Phe Ile Cys Leu Arg Gly Thr

325 330 335
 Lys Glu Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp
 340 345 350
 Thr Asp Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met Pro Arg Glu
 355 360 365
 Glu Ala Ala Glu His Ile Pro Leu Leu Phe Phe Ala Phe Pro Ser Ala
 370 375 380
 Lys Asp Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile
 385 390 395 400
 Met Leu Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu
 405 410 415
 Leu Lys Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe
 420 425 430
 Val Glu Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu
 435 440 445
 Gly Lys Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe
 450 455 460
 Tyr Leu Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu
 465 470 475 480
 Gly Arg Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro
 485 490 495
 Ile Pro Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu
 500 505 510
 Val Gly Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Ala Ile Leu Lys
 515 520 525
 Arg Asn Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala
 530 535 540
 Gln Lys Lys Lys Asn
 545

<210> 1074
 <211> 467
 <212> PRT
 <213> Homo sapiens

<400> 1074
 Met Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1 5 10 15
 Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
 20 25 30
 Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
 35 40 45

Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50 55 60
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65 70 75 80
 Asn Asn Pro Ala Trp Ala Val Gln Glu Thr Arg Asp Arg Phe His
 85 90 95
 Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
 100 105 110
 Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
 115 120 125
 Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130 135 140
 Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
 145 150 155 160
 Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln
 165 170 175
 Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
 180 185 190
 His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
 195 200 205
 Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
 210 215 220
 Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
 225 230 235 240
 Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
 245 250 255
 Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
 260 265 270
 Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
 275 280 285
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
 290 295 300
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
 305 310 315 320
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
 325 330 335
 Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
 340 345 350
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
 355 360 365
 Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala

370 375 380
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
 385 390 395 400
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
 405 410 415
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
 420 425 430
 Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
 435 440 445
 Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
 450 455 460
 Ile Pro Lys
 465

<210> 1075
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1075
 Met Lys Val Val Val Met Val Val Ile Leu Val Val Val Thr Leu
 1 5 10 15
 Val Val Val Val Met Val Val Ile Leu Val Met Val Val Met Val Val
 20 25 30
 Ala Leu Val Thr Leu Thr Trp Gly Pro Val Ala Val Thr Val Asp Ala
 35 40 45
 Gly Ser Trp
 50

<210> 1076
 <211> 455
 <212> PRT
 <213> Homo sapiens

<400> 1076
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp
 20 25 30
 Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala
 35 40 45
 Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Pro
 50 55 60
 Cys Ile Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Arg

| 65 | 70 | 75 | 80 |
|---|-----|-----|-----|
| Asn Phe Leu Leu Arg Ser Arg Ala Leu Ala Thr Gln Arg Arg Ser Ala | 85 | 90 | 95 |
| Arg Val Thr Gly Leu Thr Arg Leu Pro Thr Cys Ala Arg Leu Gly Leu | 100 | 105 | 110 |
| Gly Thr Arg Arg Arg Arg Gln Arg Arg Gly Glu Arg Trp Arg Arg Arg | 115 | 120 | 125 |
| Ala Gly Ser Ala Gly Ser Arg Arg Cys Ser Gly Arg Lys Arg Arg Gly | 130 | 135 | 140 |
| Val Cys Arg Arg Gly Arg Cys Arg Gln Arg Trp Arg Ser Arg Ala Pro | 145 | 150 | 155 |
| Leu Ser Pro Gly Ala Thr Val Ala Leu Leu Leu Pro Ala Gly Pro Glu | 165 | 170 | 175 |
| Phe Leu Trp Leu Trp Ile Gly Leu Ala Lys Ala Gly Leu Arg Thr Ala | 180 | 185 | 190 |
| Phe Val Pro Thr Ala Leu Arg Arg Gly Pro Leu Leu His Cys Leu Arg | 195 | 200 | 205 |
| Ser Cys Gly Ala Arg Ala Leu Val Leu Ala Pro Glu Phe Leu Glu Ser | 210 | 215 | 220 |
| Leu Glu Pro Asp Leu Pro Ala Leu Arg Ala Met Gly Leu His Leu Trp | 225 | 230 | 235 |
| Ala Ala Gly Pro Gly Thr His Pro Ala Gly Ile Ser Asp Leu Leu Ala | 245 | 250 | 255 |
| Glu Val Ser Ala Glu Val Asp Gly Pro Val Pro Gly Tyr Leu Ser Ser | 260 | 265 | 270 |
| Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr Ile Phe Thr Ser Gly Thr | 275 | 280 | 285 |
| Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser His Leu Lys Ile Leu Gln | 290 | 295 | 300 |
| Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val His Gln Glu Asp Val Ile | 305 | 310 | 315 |
| Tyr Leu Ala Leu Pro Leu Tyr His Met Ser Gly Ser Leu Leu Gly Ile | 325 | 330 | 335 |
| Val Gly Cys Met Gly Ile Gly Ala Thr Val Val Leu Lys Ser Lys Phe | 340 | 345 | 350 |
| Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln Gln His Arg Val Thr Val | 355 | 360 | 365 |
| Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Val Asn Gln Pro Pro | 370 | 375 | 380 |
| Ser Lys Ala Glu Arg Gly His Lys Val Arg Leu Ala Val Gly Ser Gly | 385 | 390 | 395 |
| | | | 400 |

Leu Arg Pro Asp Thr Trp Glu Arg Phe Val Arg Arg Phe Gly Pro Leu
 405 410 415
 Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu Gly Asn Val Pro Pro Ser
 420 425 430
 Thr Thr Gln Asp Ser Gly Ala Leu Trp Gly Val Leu Pro Gly Phe Thr
 435 440 445
 Ser Ile Ser Ser Pro Ser Pro
 450 455

<210> 1077
 <211> 802
 <212> PRT
 <213> Homo sapiens

<400> 1077
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro
 20 25 30
 Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp
 35 40 45
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly
 50 55 60
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg
 65 70 75 80
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro
 85 90 95
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys
 100 105 110
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp
 115 120 125
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg
 130 135 140
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg
 145 150 155 160
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser
 165 170 175
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro
 180 185 190
 Phe Val Gly Gly Thr Tyr Phe Pro Pro Glu Asp Gly Leu Thr Arg Val
 195 200 205
 Gly Phe Arg Thr Val Leu Leu Arg Ile Arg Glu Gln Trp Lys Gln Asn

| 210 | 215 | 220 |
|---|---|-------------|
| Lys Asn Thr Leu Leu | Glu Asn Ser Gln Arg Val Thr Thr Ala Leu Leu | |
| 225 | 230 | 235 240 |
| Ala Arg Ser Glu Ile | Ser Val Gly Asp Arg Gln Leu Pro Pro Ser Ala | |
| | 245 | 250 255 |
| Ala Thr Val Asn Asn Arg Cys Phe Gln Gln Leu Asp Glu Gly Tyr Asp | | |
| | 260 | 265 270 |
| Glu Glu Tyr Gly Gly Phe Ala Glu Ala Pro Lys Phe Pro Thr Pro Val | | |
| | 275 | 280 285 |
| Ile Leu Ser Phe Leu Phe Ser Tyr Trp Leu Ser His Arg Leu Thr Gln | | |
| | 290 | 295 300 |
| Asp Gly Ser Arg Ala Gln Gln Met Ala Leu His Thr Leu Lys Met Met | | |
| | 305 | 310 315 320 |
| Ala Asn Gly Gly Ile Arg Asp His Val Gly Gln Gly Phe His Arg Tyr | | |
| | 325 | 330 335 |
| Ser Thr Asp Arg Gln Trp His Val Pro His Phe Glu Lys Met Leu Tyr | | |
| | 340 | 345 350 |
| Asp Gln Ala Gln Leu Ala Val Ala Tyr Ser Gln Ala Phe Gln Leu Ser | | |
| | 355 | 360 365 |
| Gly Asp Glu Phe Tyr Ser Asp Val Ala Lys Gly Ile Leu Gln Tyr Val | | |
| | 370 | 375 380 |
| Ala Arg Ser Leu Ser His Arg Ser Gly Gly Phe Tyr Ser Ala Glu Asp | | |
| | 385 | 390 395 400 |
| Ala Asp Ser Pro Pro Glu Arg Gly Gln Arg Pro Lys Glu Gly Ala Tyr | | |
| | 405 | 410 415 |
| Tyr Val Trp Thr Val Lys Glu Val Gln Gln Leu Leu Pro Glu Pro Val | | |
| | 420 | 425 430 |
| Leu Gly Ala Thr Glu Pro Leu Thr Ser Gly Gln Leu Leu Met Lys His | | |
| | 435 | 440 445 |
| Tyr Gly Leu Thr Glu Ala Gly Asn Ile Ser Pro Ser Gln Asp Pro Lys | | |
| | 450 | 455 460 |
| Gly Glu Leu Gln Gly Gln Asn Val Leu Thr Val Arg Tyr Ser Leu Glu | | |
| | 465 | 470 475 480 |
| Leu Thr Ala Ala Arg Phe Gly Leu Asp Val Glu Ala Val Arg Thr Leu | | |
| | 485 | 490 495 |
| Leu Asn Ser Gly Leu Glu Lys Leu Phe Gln Ala Arg Lys His Arg Pro | | |
| | 500 | 505 510 |
| Lys Pro His Leu Asp Ser Lys Met Leu Ala Ala Trp Asn Gly Leu Met | | |
| | 515 | 520 525 |
| Val Ser Gly Tyr Ala Val Thr Gly Ala Val Leu Gly Gln Asp Arg Leu | | |
| | 530 | 535 540 |

Ile Asn Tyr Ala Thr Asn Gly Ala Lys Phe Leu Lys Arg His Met Phe
 545 550 555 560
 Asp Val Ala Ser Gly Arg Leu Met Arg Thr Cys Tyr Thr Gly Pro Gly
 565 570 575
 Gly Thr Val Glu His Ser Asn Pro Pro Cys Trp Gly Phe Leu Glu Asp
 580 585 590
 Tyr Ala Phe Val Val Arg Gly Leu Leu Asp Leu Tyr Glu Ala Ser Gln
 595 600 605
 Glu Ser Ala Trp Leu Glu Trp Ala Leu Arg Leu Gln Asp Thr Gln Asp
 610 615 620
 Arg Leu Phe Trp Asp Ser Gln Gly Gly Gly Tyr Phe Cys Ser Glu Ala
 625 630 635 640
 Glu Leu Gly Ala Gly Leu Pro Leu Arg Leu Lys Asp Asp Gln Asp Gly
 645 650 655
 Ala Glu Pro Ser Ala Asn Ser Val Ser Ala His Asn Leu Leu Arg Leu
 660 665 670
 His Gly Phe Thr Gly His Lys Asp Trp Met Asp Lys Cys Val Cys Leu
 675 680 685
 Leu Thr Ala Phe Ser Glu Arg Met Arg Arg Val Pro Val Ala Leu Pro
 690 695 700
 Glu Met Val Arg Ala Leu Ser Ala Gln Gln Gln Thr Leu Lys Gln Ile
 705 710 715 720
 Val Ile Cys Gly Asp Arg Gln Ala Lys Asp Thr Lys Ala Leu Val Gln
 725 730 735
 Cys Val His Ser Val Tyr Ile Pro Asn Lys Val Leu Ile Leu Ala Asp
 740 745 750
 Gly Asp Pro Ser Ser Phe Leu Ser Arg Gln Leu Pro Phe Leu Ser Thr
 755 760 765
 Leu Arg Arg Leu Glu Asp Gln Ala Thr Ala Tyr Val Cys Glu Asn Gln
 770 775 780
 Ala Cys Ser Val Pro Ile Thr Asp Pro Cys Glu Leu Arg Lys Leu Leu
 785 790 795 800
 His Pro

<210> 1078

<211> 325

<212> PRT

<213> Homo sapiens

<400> 1078

Met Gly Ser Gln Val Ser Ser Met Leu Lys Leu Ala Leu Gln Asn Cys

| 1 | 5 | 10 | 15 |
|---|-----|-----|-----|
| Cys Pro Gln Leu Trp Gln Arg His Ser Ala Arg Asp Arg Gln Cys Ala | 20 | 25 | 30 |
| Arg Val Leu Ala Asp Glu Arg Ser Pro Gln Pro Gly Ala Ser Pro Gln | 35 | 40 | 45 |
| Glu Asp Ile Ala Asn Phe Gln Val Leu Val Lys Ile Leu Pro Val Met | 50 | 55 | 60 |
| Val Thr Leu Val Pro Tyr Trp Met Val Tyr Phe Gln Met Gln Ser Thr | 65 | 70 | 75 |
| Tyr Val Leu Gln Gly Leu His Leu His Ile Pro Asn Ile Phe Pro Ala | 85 | 90 | 95 |
| Asn Pro Ala Asn Ile Ser Val Ala Leu Arg Ala Gln Gly Ser Ser Tyr | 100 | 105 | 110 |
| Thr Ile Pro Glu Ala Trp Leu Leu Leu Ala Asn Val Val Val Val Leu | 115 | 120 | 125 |
| Ile Leu Val Pro Leu Lys Asp Arg Leu Ile Asp Pro Leu Leu Leu Arg | 130 | 135 | 140 |
| Cys Lys Leu Leu Pro Ser Ala Leu Gln Lys Met Ala Leu Gly Met Phe | 145 | 150 | 155 |
| Phe Gly Phe Thr Ser Val Ile Val Ala Gly Val Leu Glu Met Glu Arg | 165 | 170 | 175 |
| Leu His Tyr Ile His His Asn Glu Thr Val Ser Gln Gln Ile Gly Glu | 180 | 185 | 190 |
| Val Leu Tyr Asn Ala Ala Pro Leu Ser Ile Trp Trp Gln Ile Pro Gln | 195 | 200 | 205 |
| Tyr Leu Leu Ile Gly Ile Ser Glu Ile Phe Ala Ser Ile Pro Gly Leu | 210 | 215 | 220 |
| Glu Phe Ala Tyr Ser Glu Ala Pro Arg Ser Met Gln Gly Ala Ile Met | 225 | 230 | 235 |
| Gly Ile Phe Phe Cys Leu Ser Gly Val Gly Ser Leu Leu Gly Ser Ser | 245 | 250 | 255 |
| Leu Val Ala Leu Leu Ser Leu Pro Gly Gly Trp Leu His Cys Pro Lys | 260 | 265 | 270 |
| Asp Phe Gly Asn Ile Asn Asn Cys Arg Met Asp Leu Tyr Phe Phe Leu | 275 | 280 | 285 |
| Leu Ala Gly Ile Gln Ala Val Thr Ala Leu Leu Phe Val Trp Ile Ala | 290 | 295 | 300 |
| Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro Ala Ser His Ser Arg Phe | 305 | 310 | 315 |
| Ser Arg Asp Arg Gly | 325 | | |

<210> 1079
 <211> 331
 <212> PRT
 <213> Homo sapiens

<400> 1079

```

Met Leu Thr Gly Ile Ala Val Gly Ala Leu Leu Ala Leu Ala Leu Val
  1           5           10           15

Gly Val Leu Ile Leu Phe Met Phe Arg Arg Leu Arg Gln Phe Arg Gln
          20           25           30

Ala Gln Pro Thr Pro Gln Tyr Arg Phe Arg Lys Arg Asp Lys Val Met
          35           40           45

Phe Tyr Gly Arg Lys Ile Met Arg Lys Val Thr Thr Leu Pro Asn Thr
  50           55           60

Leu Val Glu Asn Thr Ala Leu Pro Arg Gln Arg Ala Arg Lys Arg Thr
  65           70           75           80

Lys Val Leu Ser Leu Ala Lys Arg Ile Leu Arg Phe Lys Lys Glu Tyr
          85           90           95

Pro Ala Leu Gln Pro Lys Glu Pro Pro Pro Ser Leu Leu Glu Ala Asp
          100          105          110

Leu Thr Glu Phe Asp Val Lys Asn Ser His Leu Pro Ser Glu Val Leu
          115          120          125

Tyr Met Leu Lys Asn Val Arg Val Leu Gly His Phe Glu Lys Pro Leu
          130          135          140

Phe Leu Glu Leu Cys Lys His Ile Val Phe Val Gln Leu Gln Glu Gly
          145          150          155          160

Glu His Val Phe Gln Pro Arg Glu Pro Asp Pro Ser Ile Cys Val Val
          165          170          175

Gln Asp Gly Arg Leu Glu Val Cys Ile Gln Asp Thr Asp Gly Thr Glu
          180          185          190

Val Val Val Lys Glu Val Leu Ala Gly Asp Ser Val His Ser Leu Leu
          195          200          205

Ser Ile Leu Asp Ile Ile Thr Gly His Ala Ala Pro Tyr Lys Thr Val
          210          215          220

Ser Val Arg Ala Ala Ile Pro Ser Ser Ile Leu Arg Leu Pro Ala Ala
          225          230          235          240

Ala Phe His Gly Val Phe Glu Lys Tyr Pro Glu Thr Leu Val Arg Val
          245          250          255

Val Gln Ile Ile Met Val Arg Leu Gln Arg Val Thr Phe Leu Ala Leu
          260          265          270

His Asn Tyr Leu Gly Leu Thr Thr Glu Leu Phe Asn Ala Glu Ser Gln

```


| | | |
|-------------------------|---------------------|---------------------|
| 275 | 280 | 285 |
| Ala Ile Pro Leu Val Ser | Val Ala Ser Val Ala | Ala Gly Lys Ala Lys |
| 290 | 295 | 300 |
| Lys Gln Val Phe Tyr Gly | Glu Glu Glu Arg Leu | Lys Lys Pro Pro Arg |
| 305 | 310 | 315 |
| Leu Gln Glu Ser Cys Asp | Ser Asp His Gly Gly | |
| 325 | 330 | |

<210> 1080
 <211> 365
 <212> PRT
 <213> Homo sapiens

<400> 1080

| | | |
|-------------------------|---------------------|---------------------|
| Met Phe Val Gly Leu Met | Ala Phe Leu Leu Ser | Phe Tyr Leu Ile Phe |
| 1 | 5 | 10 |
| Thr Asn Glu Gly Arg Ala | Leu Lys Thr Ala Thr | Ser Leu Ala Glu Gly |
| 20 | 25 | 30 |
| Leu Ser Leu Val Val Ser | Pro Asp Ser Ile His | Ser Val Ala Pro Glu |
| 35 | 40 | 45 |
| Asn Glu Gly Arg Leu Val | His Ile Ile Gly Ala | Leu Arg Thr Ser Lys |
| 50 | 55 | 60 |
| Leu Leu Ser Asp Pro Asn | Tyr Gly Val His Leu | Pro Ala Val Lys Leu |
| 65 | 70 | 75 |
| Arg Arg His Val Glu Met | Tyr Gln Trp Val Glu | Thr Glu Glu Ser Arg |
| 85 | 90 | 95 |
| Glu Tyr Thr Glu Asp Gly | Gln Val Lys Lys Glu | Thr Arg Tyr Ser Tyr |
| 100 | 105 | 110 |
| Asn Thr Glu Trp Arg Ser | Glu Ile Ile Asn Ser | Lys Asn Phe Asp Arg |
| 115 | 120 | 125 |
| Glu Ile Gly His Lys Asn | Pro Ser Ala Met Ala | Val Glu Ser Phe Met |
| 130 | 135 | 140 |
| Ala Thr Ala Pro Phe Val | Gln Ile Gly Arg Phe | Phe Leu Ser Ser Gly |
| 145 | 150 | 155 |
| Leu Ile Asp Lys Val Asp | Asn Phe Lys Ser Leu | Ser Leu Ser Lys Leu |
| 165 | 170 | 175 |
| Glu Asp Pro His Val Asp | Ile Ile Arg Arg Gly | Asp Phe Phe Tyr His |
| 180 | 185 | 190 |
| Ser Glu Asn Pro Lys Tyr | Pro Glu Val Gly Asp | Leu Arg Val Ser Phe |
| 195 | 200 | 205 |
| Ser Tyr Ala Gly Leu Ser | Gly Asp Asp Pro Asp | Leu Gly Pro Ala His |
| 210 | 215 | 220 |

Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe
 225 230 235 240
 Ser Thr Lys Ser Gly Asp Thr Leu Leu Leu Leu His His Gly Asp Phe
 245 250 255
 Ser Ala Glu Glu Val Phe His Arg Glu Leu Arg Ser Asn Ser Met Lys
 260 265 270
 Thr Trp Gly Leu Arg Ala Ala Gly Trp Met Ala Met Phe Met Gly Leu
 275 280 285
 Asn Leu Met Thr Arg Ile Leu Tyr Thr Leu Val Asp Trp Phe Pro Val
 290 295 300
 Phe Arg Asp Leu Val Asn Ile Gly Leu Lys Ala Phe Ala Phe Cys Val
 305 310 315 320
 Ala Thr Ser Leu Thr Leu Leu Thr Val Ala Ala Gly Trp Leu Phe Tyr
 325 330 335
 Arg Pro Leu Trp Ala Leu Leu Ile Ala Gly Leu Ala Leu Val Pro Ile
 340 345 350
 Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu
 355 360 365

<210> 1081
 <211> 219
 <212> PRT
 <213> Homo sapiens

<400> 1081
 Met Lys Leu Leu Leu Trp Ala Cys Ile Val Cys Val Ala Phe Ala Arg
 1 5 10 15
 Lys Arg Arg Phe Pro Phe Ile Gly Glu Asp Asp Asn Asp Asp Gly His
 20 25 30
 Pro Leu His Pro Ser Leu Asn Ile Pro Tyr Gly Ile Arg Asn Leu Pro
 35 40 45
 Pro Pro Leu Tyr Tyr Arg Pro Val Asn Thr Val Pro Ser Tyr Pro Gly
 50 55 60
 Asn Thr Tyr Thr Asp Thr Gly Leu Pro Ser Tyr Pro Trp Ile Leu Thr
 65 70 75 80
 Ser Pro Gly Phe Pro Tyr Val Tyr His Ile Arg Gly Phe Pro Leu Ala
 85 90 95
 Thr Gln Leu Asn Val Pro Pro Leu Pro Pro Arg Gly Phe Pro Phe Val
 100 105 110
 Pro Pro Ser Arg Phe Phe Ser Ala Ala Ala Ala Pro Ala Ala Pro Pro
 115 120 125
 Ile Ala Ala Glu Pro Ala Ala Ala Pro Leu Thr Ala Thr Pro Val
 130 135 140

Ala Ala Glu Pro Ala Ala Gly Ala Pro Val Ala Ala Glu Pro Ala Ala
 145 150 155 160

Glu Ala Pro Val Gly Ala Glu Pro Ala Ala Glu Ala Pro Val Ala Ala
 165 170 175

Glu Pro Ala Ala Glu Ala Pro Val Gly Val Glu Pro Ala Ala Glu Glu
 180 185 190

Pro Ser Pro Ala Glu Pro Ala Thr Ala Lys Pro Ala Ala Pro Glu Pro
 195 200 205

His Pro Ser Pro Ser Leu Glu Gln Ala Asn Gln
 210 215

<210> 1082
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1082
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30

Ile Cys Ser Gln Arg Ser Ser Ser Trp Glu Met Pro Pro Gln Gly Pro
 35 40 45

Ala Pro Asp His Val Gly Arg Ala
 50 55

<210> 1083
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1083
 Gly His Val Leu Ala Tyr Ser Ser Trp Pro Ser Leu Ala Pro Gly Leu
 1 5 10 15

Ser Val Gln Tyr Phe Val Ser Arg Val Glu Val Pro Asn Pro Gly Cys
 20 25 30

Thr Leu Glu Ala Pro Gly Lys Leu Ser Glu Phe Leu Arg Pro Glu Pro
 35 40 45

His Pro Lys Pro Ile Ser Ser Glu Ser Leu Gly Gly Thr Glu Pro Gly
 50 55 60

Phe Cys Gln Leu Lys Pro Ala Met Val Thr Ser Val Ser Ser Tyr Thr
 65 70 75 80

Glu Asn Ser

<210> 1084
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1084
 Met Lys Lys Val Leu Leu Leu Ile Thr Ala Ile Leu Ala Val Ala Val
 1 5 10 15
 Gly Phe Pro Val Ser Gln Asp Gln Glu Arg Glu Lys Arg Ser Ile Ser
 20 25 30
 Asp Ser Asp Glu Leu Ala Ser Gly Phe Phe Val Phe Pro Tyr Pro Tyr
 35 40 45
 Pro Phe Arg Pro Leu Pro Pro Ile Pro Phe Pro Arg Phe Pro Trp Phe
 50 55 60
 Arg Arg Asn Phe Pro Ile Pro Ile Pro Glu Ser Ala Pro Thr Thr Pro
 65 70 75 80
 Leu Pro Ser Glu Lys
 85

<210> 1085
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 1085
 Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His
 1 5 10 15
 Pro Ala Ser Arg Thr Leu Cys Leu Met Ala Gln Ala Val
 20 25

<210> 1086
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1086
 Met Ser Arg Ala Pro Cys Ala Ser Ser Ile Leu Val Leu Thr Leu Ile
 1 5 10 15
 Val Thr Leu Leu Val Leu Leu Cys Ser Val Lys Ile Cys Asn Trp Leu
 20 25 30
 Arg Ile Thr Val Gly Val His Ser Tyr Ser Thr Lys Ser Pro Gln Val
 35 40 45
 Phe

<210> 1087

<211> 297

<212> PRT

<213> Homo sapiens

<400> 1087

Met Thr Ile Ser Lys Lys Ile Glu Gln Asn Glu Gly Lys Arg Gly Ser
 1 5 10 15

Val Leu Ala His Ser Cys Asp Gln Pro Ala Val Cys Gly Val Pro Ser
 20 25 30

Trp Pro Gly Leu Gly Thr Cys Ser Phe Leu Trp Leu Leu Pro Gly Gln
 35 40 45

Ala Thr Leu Gln Gly Cys Phe Ser Thr His Pro Phe Ala Cys Leu Pro
 50 55 60

Val Pro Gly Val Val Lys Gly Phe Trp Val Arg Val Gly Thr Pro Phe
 65 70 75 80

Ser Lys Ala Pro Cys Lys Ala Gly Leu Ser Leu Val Gly Leu Thr Ala
 85 90 95

Ser Phe Ser Pro Cys Gln Ala Ala Gln Ala Pro Glu Val Thr Tyr Glu
 100 105 110

Ala Glu Glu Gly Ser Leu Trp Thr Leu Leu Leu Thr Ser Leu Asp Gly
 115 120 125

His Leu Leu Glu Pro Asp Ala Glu Tyr Leu His Trp Leu Leu Thr Asn
 130 135 140

Ile Pro Gly Asn Arg Val Ala Glu Gly Gln Val Thr Cys Pro Tyr Leu
 145 150 155 160

Pro Pro Phe Pro Ala Arg Gly Ser Gly Ile His Arg Leu Ala Phe Leu
 165 170 175

Leu Phe Lys Gln Asp Gln Pro Ile Asp Phe Ser Glu Asp Ala Arg Pro
 180 185 190

Ser Pro Cys Tyr Gln Leu Ala Gln Arg Thr Phe Arg Thr Phe Asp Phe
 195 200 205

Tyr Lys Lys His Gln Glu Thr Met Thr Pro Ala Gly Leu Ser Phe Phe
 210 215 220

Gln Cys Arg Trp Asp Asp Ser Val Thr Tyr Ile Phe His Gln Leu Leu
 225 230 235 240

Asp Met Arg Glu Pro Val Phe Glu Phe Val Arg Pro Pro Leu Thr Thr
 245 250 255

Pro Ser Arg Ser Ala Ser Pro Thr Gly Ser Pro Cys Ala Thr Trp Thr
 260 265 270

Gly Thr Gly Thr Val Met Ser Pro Pro Met Ala Ser Thr Lys Glu Pro
 275 280 285

Glu Cys Ala His Phe Arg Ala Trp Asp
 290 295

<210> 1088
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1088
 Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe
 1 5 10 15
 Val Ser Cys Cys Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu
 20 25 30
 Asp Ser Ile Thr Phe Arg Asp Pro Lys Lys Lys Cys Leu Cys Asn Leu
 35 40 45
 Lys Ser Cys
 50

<210> 1089
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1089
 Met Cys Ser Gly Ser Phe Lys Glu Leu Tyr Leu Val Pro Ile Ser Leu
 1 5 10 15
 Phe Ser Thr Cys Val Leu Gly Phe Tyr Phe His Asn Phe Leu Leu Leu
 20 25 30
 Ile Ile Leu Phe Ser Ile Leu Leu Arg Lys Ile Thr Gly Lys Leu Phe
 35 40 45
 Phe Thr Tyr Tyr His Phe Ser Cys Gly Val
 50 55

<210> 1090
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 1090
 Met Ala Ala His Ser Val Leu Ser Phe Leu Leu Trp Thr Pro Tyr Ala
 1 5 10 15
 Leu Lys Ser

<210> 1091

<211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1091
 Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser
 1 5 10 15
 Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu
 20 25 30
 Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu
 35 40 45
 Phe His
 50

<210> 1092
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any amino acid

<400> 1092
 Met His Cys Phe Phe Leu Trp Leu Leu Leu Phe Gly Leu Leu Gly Ile
 1 5 10 15
 Ser Gly Phe Leu Gly Tyr Ile Ser Val Ala Gly Xaa Ser Ile Tyr Val
 20 25 30
 Met Trp Lys Val Glu Lys Glu Met Asn Thr
 35 40

<210> 1093
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1093
 Met Leu Phe Phe Leu Ser Leu Phe Leu Ser Leu Leu Leu Thr Leu Ser
 1 5 10 15
 Leu Pro Ser Phe Leu Pro Phe Ser Phe Phe Phe Ser Leu Phe Pro
 20 25 30
 His Leu Ser Ala Cys Leu Leu Pro Ser Leu Pro Ser Pro Pro Phe Pro
 35 40 45
 Leu Pro Pro Ser Leu Pro Ser Phe Leu Pro Ser Phe Leu Pro Ser Phe
 50 55 60
 Leu Pro Ser Leu Leu Ser Pro Ser Phe Pro Ala Phe Phe Pro Ser Phe
 65 70 75 80

Cys Gln Leu Ala Arg Arg Ser Pro Arg Lys Ser Thr Gln Met Leu Gln
 85 90 95

Ser Thr Ser

<210> 1094
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 1094
 Met Lys Lys Cys Leu Leu Pro Val Leu Ile Thr Cys Met Gln Thr Ala
 1 5 10 15
 Ile Cys Lys Asp Arg Met Met Met Ile Met Ile Leu Leu Val Asn Tyr
 20 25 30
 Arg Pro Asp Glu Phe Ile Glu Cys Glu Asp Pro Val Asp His Val Gly
 35 40 45
 Asn Ala Thr Ala Ser Gln Glu Leu Gly Tyr Gly Cys Leu Lys Phe Gly
 50 55 60
 Gly Gln Ala Tyr Ser Asp Val Glu His Thr Ser Val Gln Cys His Ala
 65 70 75 80

Leu Asp Gly Ile Glu Cys Ala Ser Pro Arg Thr Phe Leu Arg Glu Asn
 85 90 95
 Lys Pro Cys Ile Lys Tyr Thr Gly His Tyr Phe Ile Thr Thr Leu Leu
 100 105 110
 Tyr Ser Phe Phe Leu Gly Cys Phe Gly Val Asp Arg Phe Cys Leu Gly
 115 120 125
 His Thr Gly Thr Ala Val Gly Lys Leu Leu Thr Leu Gly Gly Leu Gly
 130 135 140
 Ile Trp Trp Phe Val Asp Leu Ile Leu Leu Ile Thr Gly Gly Leu Met
 145 150 155 160
 Pro Ser Asp Gly Ser Asn Trp Cys Thr Val Tyr
 165 170

<210> 1095
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1095
 Met Ala Ser Val Gly Thr Thr Leu Val Ser Pro Leu Leu Cys Leu Leu
 1 5 10 15
 Ile Pro Thr Arg Val Ser Asp Pro Trp Leu Gln Asn Thr Pro Leu His

20 25 30
 Pro Trp Lys Thr Ile Thr Ile Ile Asp Tyr Tyr Leu Ser Leu Gly Phe
 35 40 45
 Leu Gly Trp Thr Gly Leu Ser Trp Val Val His Phe Gly Ala Ser Ala
 50 55 60
 Val Met Gly Arg Gln Trp Leu Gly Ser Leu Gln Arg Leu Pro Cys Ile
 65 70 75 80
 Ser Gly Ser

<210> 1096
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 1096
 Met Gln Met Phe Thr Val Ser Leu Leu Leu Ser Leu Leu Leu Arg Ser
 1 5 10 15
 Thr Asp Gln Asn His Leu Gln Leu Leu Val Gly Arg Glu Asp His Tyr
 20 25 30
 Gly Gly

<210> 1097
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1097
 Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala
 1 5 10 15
 Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile
 20 25 30
 Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe
 35 40 45
 Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val
 50 55 60
 Leu Ser Pro Gly Phe His Ser Ala
 65 70

<210> 1098
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 1098

Met Ala Gly Leu Ile Phe Val Leu His Ser Cys Phe Arg Phe Ile Thr
 1 5 10 15
 Phe Val Cys Pro Thr Ser Ser Asp Pro Leu Arg Thr Cys Ala Val Leu
 20 25 30
 Leu Cys Val Gly Tyr Gln Asp Leu Pro Asn Pro Val Phe Arg Tyr Leu
 35 40 45
 Gln Ser Val Asn Glu Leu Leu Ser Thr Leu Leu Asn Ser Asp Ser Pro
 50 55 60
 Gln Gln Val Leu Gln Phe Val Pro Met Glu Val Leu Leu Lys Gly Ala
 65 70 75 80
 Leu Leu Asp Phe Leu Trp Asp Leu Asn Ala Ala Ile Ala Lys Arg His
 85 90 95
 Leu His Phe Ile Ile Gln Arg Glu Arg Glu Glu Ile Ile Asn Ser Leu
 100 105 110
 Gln Leu Gln Asn
 115

<210> 1099

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any amino acid

<400> 1099

Met Thr His Cys Leu Leu His Gly Met Gly Xaa Ala Gly Ala Ala Ser
 1 5 10 15
 Leu Thr Pro Lys Pro Met Ser Leu Ile Ser Ala Tyr Cys Gly Gly Leu
 20 25 30
 Trp Leu Ala Ala Val Ala Val Met Val Gln Met Ala Ala Leu Cys Gly
 35 40 45
 Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser Ile Leu Ser Arg Gly Gln
 50 55 60
 Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly Glu Phe Gly Glu Pro Lys
 65 70 75 80

<210> 1100

<211> 309

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (129)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (178)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (187)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (262)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (308)

<223> Xaa equals any amino acid

<400> 1100

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Thr | Ile | Lys | Leu | Leu | Leu | Phe | Ile | Val | Pro | Leu | Val | Ile | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Ile | Asp | Gln | Asp | Asn | Ser | Ser | Phe | Asp | Ser | Leu | Ser | Pro | Glu |
| | | | 20 | | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Lys | Ser | Arg | Phe | Ala | Met | Leu | Asp | Asp | Val | Lys | Ile | Leu | Ala | Asn |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Leu | Leu | Gln | Leu | Gly | His | Gly | Leu | Lys | Asp | Phe | Val | His | Lys | Thr |
| 50 | | | | | 55 | | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gly | Gln | Ile | Asn | Asp | Ile | Phe | Gln | Lys | Leu | Asn | Ile | Phe | Asp | Gln |
| 65 | | | | 70 | | | | | 75 | | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Tyr | Asp | Leu | Ser | Leu | Gln | Thr | Ser | Glu | Ile | Lys | Glu | Glu | Glu |
| | | | 85 | | | | | 90 | | | | | 95 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Glu | Leu | Arg | Arg | Thr | Thr | Tyr | Lys | Leu | Gln | Val | Lys | Asn | Glu | Glu |
| | | 100 | | | | | | 105 | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Lys | Asn | Met | Ser | Leu | Glu | Leu | Asn | Ser | Lys | Leu | Glu | Ser | Leu | Leu |
| | 115 | | | | | | 120 | | | | | 125 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Glu | Lys | Ile | Leu | Leu | Gln | Gln | Lys | Val | Lys | Tyr | Leu | Glu | Glu | Gln |
| 130 | | | | | 135 | | | | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Thr | Asn | Leu | Ile | Gln | Asn | Gln | Pro | Glu | Thr | Pro | Glu | His | Pro | Glu |
| 145 | | | | 150 | | | | | 155 | | | | | 160 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Ser | Leu | Lys | Thr | Phe | Val | Glu | Lys | Gln | Asp | Asn | Ser | Ile | Lys |
| | | | 165 | | | | | 170 | | | | | | 175 | |

Asp Xaa Leu Gln Thr Val Glu Asp Gln Tyr Xaa Gln Leu Asn Gln Gln
 180 185 190
 His Ser Gln Ile Lys Glu Ile Glu Asn Gln Leu Arg Arg Thr Ser Ile
 195 200 205
 Gln Glu Pro Thr Glu Ile Ser Leu Ser Ser Lys Pro Arg Ala Pro Arg
 210 215 220
 Thr Thr Pro Phe Leu Gln Leu Asn Glu Ile Arg Asn Val Lys His Asp
 225 230 235 240
 Gly Ile Pro Ala Glu Cys Thr Thr Ile Tyr Asn Arg Gly Glu His Thr
 245 250 255
 Ser Gly Met Tyr Ala Xaa Arg Pro Ser Asn Ser Gln Val Phe His Val
 260 265 270
 Tyr Cys Asp Val Ile Ser Gly Ser Pro Trp Thr Leu Ile Gln His Arg
 275 280 285
 Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu Asn Tyr Lys Tyr
 290 295 300
 Gly Phe Gly Xaa Ala
 305

<210> 1101
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1101
 Met Ile Asn Phe Trp Pro Val Thr His Val Cys Ile Trp Leu Leu Trp
 1 5 10 15
 Leu Gln Ala Leu Glu Ala Arg Gly Gln Gly Ser Asn Ile Asp Cys Thr
 20 25 30
 Arg Asn Ser Lys Thr Val Phe Thr Ser
 35 40

<210> 1102
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 1102
 Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
 20 25 30
 Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
 35 40 45

Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
 50 55 60
 Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
 65 70 75 80
 Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
 85 90 95
 Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
 100 105 110
 Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
 115 120 125
 Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
 130 135 140
 Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
 145 150 155 160
 Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu
 165 170 175
 Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu
 180 185 190
 Glu Lys Arg Asn Lys Ser Lys Lys Lys
 195 200

<210> 1103
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1103
 Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Ala Leu
 1 5 10 15
 Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr
 20 25 30
 Pro Leu Pro Asp Glu Ser Glu His Phe
 35 40

<210> 1104
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1104
 Met Asn Leu Leu His Cys Leu Tyr Met Ile Asn Ile Ile Ile Tyr Ile
 1 5 10 15
 Phe Cys Ile Lys Leu Ile Trp Leu His Leu Ser Cys Ile Leu Ser His
 20 25 30

Ile Ser Phe Ile Ser Ser Met Asp Met Ser Arg Ser Leu Tyr Trp Ser
 35 40 45

Pro Val Cys Ala Val
 50

<210> 1105

<211> 355

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (331)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (338)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (345)

<223> Xaa equals any amino acid

<400> 1105

Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr
 1 5 10 15

Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg
 20 25 30

Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr
 35 40 45

Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr
 50 55 60

Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile
 65 70 75 80

Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu
 85 90 95

Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr
 100 105 110

Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile
 115 120 125

Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr
 130 135 140

Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr
 145 150 155 160

Leu Phe Ala Tyr Leu Met Cys Leu Tyr Gly Asn His Lys Thr Ser Ala
 165 170 175

Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp
 180 185 190
 Ala Val Phe Cys Ala Gly Asn Val Ile Ala Gln Lys Leu Thr Glu Ala
 195 200 205
 Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys
 210 215 220
 Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu Ala Tyr
 225 230 235 240
 Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro
 245 250 255
 Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val Val Asn Gly
 260 265 270
 Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe
 275 280 285
 Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro
 290 295 300
 His Leu Leu Ser Pro Ser Lys Ile Lys Thr Phe Pro Phe Leu Ser Leu
 305 310 315 320
 Gly Asn Val Glu Phe Cys Phe Leu Val Val Xaa Leu Val Leu Cys Gly
 325 330 335
 Phe Xaa Val Trp Glu Ile Pro Ile Xaa Gly Ser Arg Asn Thr Cys Leu
 340 345 350
 Ala Asp Gln
 355

<210> 1106
 <211> 354
 <212> PRT
 <213> Homo sapiens

<400> 1106
 Met Ala Pro Ala Lys Ala Thr Asn Val Val Arg Leu Leu Leu Gly Ser
 1 5 10 15
 Thr Ala Leu Trp Leu Ser Gln Leu Gly Ser Gly Thr Val Ala Ala Ser
 20 25 30
 Lys Ser Val Thr Ala His Leu Ala Ala Lys Trp Pro Glu Thr Pro Leu
 35 40 45
 Leu Leu Glu Ala Ser Glu Phe Met Ala Glu Glu Ser Asn Glu Lys Phe
 50 55 60
 Trp Gln Phe Leu Glu Thr Val Gln Glu Leu Ala Ile Tyr Lys Gln Thr
 65 70 75 80
 Glu Ser Asp Tyr Ser Tyr Tyr Asn Leu Ile Leu Lys Lys Ala Gly Gln

Ile Gly

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<210> 1107
<211> 42
<212> PRT
<213> Homo sapiens
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<400> 1107

Met Ile Asn Cys Val Cys Val His Ala Cys Val Arg Ala Cys Gly Leu
 1 5 10 15
 Leu His Ser Leu Val Leu Leu Leu Ser Leu Ser Leu Ser Ser Ala Leu
 20 25 30
 Phe Ile Pro Trp Asp Thr Glu Ile Phe Lys
 35 40

<210> 1108
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1108
 Met Arg Ile His Pro Ile Phe Arg Leu Gly Asn Val Tyr Ser Leu Leu
 1 5 10 15
 Ser Phe Leu Ile Leu Gly Arg Val Ser Thr Lys Asn Ser Ile Glu Glu
 20 25 30
 Lys Gln Tyr Asn Ile Lys Ile Lys Lys Ile
 35 40

<210> 1109
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1109
 Met Cys Leu Ser Leu Thr Ser Ile His Ile His Pro Thr Ser Leu Leu
 1 5 10 15
 Leu Gln Ser Phe Ile Val Ile Phe Ser Leu Met Leu Glu Ser Phe Ala
 20 25 30
 Phe Ser Ser Cys Ser His Cys Leu Lys Phe Cys Glu Leu Leu Arg Lys
 35 40 45
 Ser Leu Val Lys Val
 50

<210> 1110
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1110
 Met Ala Leu Ala Ile Phe Ile Pro Val Leu Ile Ile Ser Leu Leu Leu
 1 5 10 15
 Gly Gly Ala Tyr Ile Tyr Ile Thr Arg Cys Arg Tyr Tyr Ser Asn Leu
 20 25 30
 Arg Leu Pro Leu Met Tyr Ser His Pro Tyr Ser Gln Ile Thr Val Glu

35 40 45
 Thr Glu Phe Asp Asn Pro Ile Tyr Glu Thr Gly Glu Thr Arg Glu Tyr
 50 55 60
 Glu Val Ser Ile
 65

<210> 1111
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1111
 Met Glu Ala Val Val Phe Val Phe Ser Leu Leu Asp Cys Cys Ala Leu
 1 5 10 15
 Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu Ser Asp Leu Glu Cys
 20 25 30
 Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys Leu Asn Lys Trp Val
 35 40 45
 Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr Val Leu Leu Leu Met
 50 55 60
 Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu Pro Val Ala Thr Trp
 65 70 75 80
 Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly Asn Met Gly Val Phe
 85 90 95
 Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu Lys Ser His Met Lys
 100 105 110
 Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu Cys Phe Phe Met Tyr
 115 120 125
 Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp
 130 135

<210> 1112
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1112
 Met Gly Arg Gln Ala Leu Leu Leu Leu Ala Leu Cys Ala Thr Gly Ala
 1 5 10 15
 Gln Gly Leu Tyr Phe His Ile Gly Glu Thr Glu Lys Arg Cys Phe Ile
 20 25 30
 Glu Glu Ile Pro Asp Glu Thr Met Val Ile Gly Gln Ala Gly
 35 40 45

<210> 1113
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any amino acid

<400> 1113
 Met Leu Ser Gln Pro Arg Met Glu Ser Leu Asp Thr Pro Ala Ala Tyr
 1 5 10 15
 Ser Leu Gly Leu Ala Leu Leu Gly Leu Gly Val Val Leu Val Leu Ser
 20 25 30
 Ser Phe Phe Ala Leu Gly Phe Ala Gly Thr Phe Leu Gly Asp Tyr Phe
 35 40 45
 Gly Ile Leu Lys Glu Ala Arg Val Thr Val Phe Pro Phe Asn Ile Leu
 50 55 60
 Asp Asn Pro Met Tyr Trp Gly Ser Thr Ala Asn Tyr Leu Gly Trp Ala
 65 70 75 80
 Ile Met His Ala Ser Pro Thr Gly Leu Leu Leu Thr Val Leu Val Ala
 85 90 95
 Leu Thr Tyr Ile Xaa Ala Leu Leu Tyr Glu Glu Pro Phe Thr Ala Glu
 100 105 110
 Ile Tyr Arg Gln Lys Ala Ser Gly Ser His Lys Arg Ser
 115 120 125

<210> 1114
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 1114
 Met Leu Gly Leu Pro Trp Lys Gly Gly Leu Ser Trp Ala Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Gly Ser Gln Ile Leu Leu Ile Tyr Ala Trp His Phe His
 20 25 30
 Glu Gln Arg Asp Cys Asp Glu His Asn Val Met Ala Arg Tyr Leu Pro
 35 40 45
 Ala Thr Val Glu Phe Ala Val His Thr Phe Asn Gln Gln Ser Lys Asp
 50 55 60
 Tyr Tyr Ala Tyr Arg Leu Gly His Ile Leu Asn Ser Trp Lys Glu Gln
 65 70 75 80
 Val Glu Ser Lys Thr Val Phe Ser Met Glu Leu Leu Leu Gly Arg Thr
 85 90 95

Arg Cys Gly Lys Phe Glu Asp Asp Ile Asp Asn Cys His Phe Gln Glu
 100 105 110
 Ser Thr Glu Leu Asn Asn Thr Phe Thr Cys Phe Phe Thr Ile Ser Thr
 115 120 125
 Arg Pro Trp Met Thr Gln Phe Ser Leu Leu Asn Lys Thr Cys Leu Glu
 130 135 140
 Gly Phe His
 145

<210> 1115
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1115
 Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu
 20 25 30
 Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln
 35 40 45
 Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr
 50 55 60
 Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly
 65 70 75 80
 Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg
 85 90 95
 Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln
 100 105 110
 Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln
 115 120 125
 Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe
 130 135 140
 Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu
 145 150 155

<210> 1116
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 1116
 Met Lys Ser Leu Leu Phe Thr Leu Ala Val Phe Met Leu Leu Ala Gln
 1 5 10 15

Leu Val Ser Gly Asn Trp Tyr Val Lys Lys Cys Leu Asn Asp Val Gly
 20 25 30
 Ile Cys Lys Lys Lys Cys Lys Pro Glu Glu Met His Val Lys Asn Gly
 35 40 45
 Trp Ala Met Cys Gly Lys Gln Arg Asp Cys Cys Val Pro Ala Asp Arg
 50 55 60
 Arg Ala Asn Tyr Pro Val Phe Cys Val Gln Thr Lys Thr Thr Arg Ile
 65 70 75 80
 Ser Thr Val Thr Ala Thr Thr Ala Thr Thr Thr Leu Met Met Thr Thr
 85 90 95
 Ala Ser Met Ser Ser Met Ala Pro Thr Pro Val Ser Pro Thr Gly
 100 105 110

<210> 1117
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1117
 Met Met Leu Pro Gln Trp Leu Leu Leu Leu Phe Leu Leu Phe Phe Phe
 1 5 10 15
 Leu Phe Leu Leu Thr Arg Gly Ser Leu Ser Pro Thr Lys Tyr Asn Leu
 20 25 30
 Leu Glu Leu Lys Glu Ser Cys Ile Arg Asn Gln Asp Cys Glu Thr Gly
 35 40 45
 Cys Cys Gln Arg Ala Pro Asp Asn Cys Glu Ser His Cys Ala Glu Lys
 50 55 60
 Gly Ser Glu Gly Ser Leu Cys Gln Thr Gln Val Phe Phe Gly Gln Tyr
 65 70 75 80
 Arg Ala Cys Pro Cys Leu Arg Asn Leu Thr Cys Ile Tyr Ser Lys Asn
 85 90 95
 Glu Lys Trp Leu Ser Ile Ala Tyr Gly Arg Cys Gln Lys Ile Gly Arg
 100 105 110
 Gln Lys Leu Ala Lys Lys Met Phe Phe
 115 120

<210> 1118
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 1118
 Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
 1 5 10 15

Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
 20 25 30
 Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
 35 40 45
 Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
 50 55 60
 Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
 65 70 75 80
 Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
 85 90 95
 Val Cys Pro Ser Val Arg Leu Ser Gly Arg Pro Gly Pro Lys Trp Gly
 100 105 110
 Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
 115 120 125
 Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
 130 135 140
 Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
 145 150 155 160
 Leu

<210> 1119
 <211> 344
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any amino acid

<400> 1119
 Met Asp Phe Leu Val Leu Phe Leu Phe Tyr Leu Ala Ser Val Leu Met
 1 5 10 15
 Gly Leu Val Leu Ile Cys Val Cys Ser Lys Thr His Ser Leu Lys Gly
 20 25 30
 Leu Ala Arg Gly Gly Ala Gln Ile Phe Ser Cys Ile Ile Pro Glu Cys
 35 40 45
 Leu Gln Arg Ala Xaa His Gly Leu Leu His Tyr Leu Phe His Thr Arg
 50 55 60
 Asn His Thr Phe Ile Val Leu His Leu Val Leu Gln Gly Met Val Tyr
 65 70 75 80
 Thr Glu Tyr Thr Trp Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu
 85 90 95

Ser Leu His Tyr Leu Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu
 100 105 110
 Phe Phe Phe Thr Leu Thr Cys Gly Thr Asn Pro Gly Ile Ile Thr Lys
 115 120 125
 Ala Asn Glu Leu Leu Phe Leu His Val Tyr Glu Phe Asp Glu Val Met
 130 135 140
 Phe Pro Lys Asn Val Arg Cys Ser Thr Cys Asp Leu Arg Lys Pro Ala
 145 150 155 160
 Arg Ser Lys His Cys Ser Val Cys Asn Trp Cys Val His Arg Phe Asp
 165 170 175
 His His Cys Val Trp Val Asn Asn Cys Ile Gly Ala Trp Asn Ile Arg
 180 185 190
 Tyr Phe Leu Ile Tyr Val Leu Thr Leu Thr Ala Ser Ala Ala Thr Val
 195 200 205
 Ala Ile Val Ser Thr Thr Phe Leu Val His Leu Val Val Met Ser Asp
 210 215 220
 Leu Tyr Gln Glu Thr Tyr Ile Asp Asp Leu Gly His Leu His Val Met
 225 230 235 240
 Asp Thr Val Phe Leu Ile Gln Tyr Leu Phe Leu Thr Phe Pro Arg Ile
 245 250 255
 Val Phe Met Leu Gly Phe Val Val Val Leu Ser Phe Leu Leu Gly Gly
 260 265 270
 Tyr Leu Leu Phe Val Leu Tyr Leu Ala Ala Thr Asn Gln Thr Thr Asn
 275 280 285
 Glu Trp Tyr Arg Gly Asp Trp Ala Trp Cys Gln Arg Cys Pro Leu Val
 290 295 300
 Ala Trp Pro Pro Ser Ala Glu Pro Gln Val His Arg Asn Ile His Ser
 305 310 315 320
 His Gly Leu Arg Ser Asn Leu Gln Glu Ile Phe Leu Pro Ala Phe Pro
 325 330 335
 Cys His Glu Arg Lys Lys Gln Glu
 340

<210> 1120

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1120

Met Leu Arg Leu Thr Gln Thr Phe Phe Phe Ile Ser Gln Thr Leu Leu
 1 5 10 15

Asp Trp Phe Leu Ala Ala Ala Leu Ala Leu Pro Asn Leu Cys Ser Pro
 20 25 30
 Leu Ala Ser Asn Phe Lys Ser Arg Gln Ile Ser Ser Val Pro Ile Gln
 35 40 45
 Pro Ser Gln Gly Thr Ser Arg Val Ala Leu Gln Ile Trp Cys Gly Ser
 50 55 60
 Cys Arg Met Arg Met Ser Ser Ser Thr Ile His Ile Leu Ala Leu
 65 70 75

<210> 1121
 <211> 291
 <212> PRT
 <213> Homo sapiens

<400> 1121
 Met Leu Phe Leu Phe Ser Met Ala Thr Leu Leu Arg Thr Ser Phe Ser
 1 5 10 15
 Asp Pro Gly Val Ile Pro Arg Ala Leu Pro Asp Glu Ala Ala Phe Ile
 20 25 30
 Glu Met Glu Ile Glu Ala Thr Asn Gly Ala Val Pro Gln Gly Gln Arg
 35 40 45
 Pro Pro Pro Arg Ile Lys Asn Phe Gln Ile Asn Asn Gln Ile Val Lys
 50 55 60
 Leu Lys Tyr Cys Tyr Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser
 65 70 75 80
 His Cys Ser Ile Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys
 85 90 95
 Pro Trp Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Tyr Phe Tyr
 100 105 110
 Leu Phe Ile Leu Ser Leu Ser Leu Leu Thr Ile Tyr Val Phe Ala Phe
 115 120 125
 Asn Ile Val Tyr Val Ala Leu Lys Ser Leu Lys Ile Gly Phe Leu Glu
 130 135 140
 Thr Leu Lys Glu Thr Pro Gly Thr Val Leu Glu Val Leu Ile Cys Phe
 145 150 155 160
 Phe Thr Leu Trp Ser Val Val Gly Leu Thr Gly Phe His Thr Phe Leu
 165 170 175
 Val Ala Leu Asn Gln Thr Thr Asn Glu Asp Ile Lys Gly Ser Trp Thr
 180 185 190
 Gly Lys Asn Arg Val Gln Asn Pro Tyr Ser His Gly Asn Ile Val Lys
 195 200 205
 Asn Cys Cys Glu Val Leu Cys Gly Pro Leu Pro Pro Ser Val Leu Asp
 210 215 220

Arg Arg Gly Ile Leu Pro Leu Glu Glu Ser Gly Ser Arg Pro Pro Ser
 225 230 235 240

Thr Gln Glu Thr Ser Ser Ser Leu Leu Pro Gln Ser Pro Ala Pro Thr
 245 250 255

Glu His Leu Asn Ser Asn Glu Met Pro Glu Asp Ser Ser Thr Pro Glu
 260 265 270

Glu Met Pro Pro Pro Glu Pro Pro Glu Pro Pro Gln Glu Ala Ala Glu
 275 280 285

Ala Glu Lys
 290

<210> 1122
 <211> 190
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any amino acid

<400> 1122
 Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser
 1 5 10 15

Val Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val
 20 25 30

Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Leu Gly Pro Pro Asp Pro
 35 40 45

Arg Pro Arg Thr Leu Pro Pro Leu Pro Pro Gly Pro Thr Pro Ala Gln
 50 55 60

Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Pro Arg Gly Ser Glu
 65 70 75 80

Gly Gly Asn Gly Ser Asn Pro Val Ala Gly Leu Glu Thr Asp Asp His
 85 90 95

Gly Gly Lys Ala Gly Glu Gly Ser Val Gly Gly Gly Leu Ala Val Ser
 100 105 110

Pro Asn Pro Gly Asp Lys Pro Met Thr Gln Arg Ala Leu Thr Val Leu
 115 120 125

Met Val Val Ser Gly Ala Val Leu Val Tyr Phe Val Val Arg Thr Val
 130 135 140

Arg Met Arg Arg Arg Asn Arg Lys Thr Arg Arg Tyr Gly Val Leu Asp
 145 150 155 160
 Thr Asn Ile Glu Asn Met Glu Leu Thr Pro Leu Glu Gln Asp Asp Glu
 165 170 175
 Asp Asp Asp Asn Thr Leu Phe Asp Ala Asn His Pro Arg Arg
 180 185 190

<210> 1123
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1123
 Met Lys Leu Leu Leu Leu Ala Leu Pro Met Leu Val Leu Leu Pro Gln
 1 5 10 15
 Val Ile Pro Ala Tyr Ser Gly Glu Lys Lys Cys Trp Asn Arg Ser Gly
 20 25 30
 His Cys Arg Lys Gln Cys Lys Asp Gly Glu Ala Val Lys Asp Thr Cys
 35 40 45
 Lys Asn Leu Arg Ala Cys Cys Ile Pro Ser Asn Glu Asp His Arg Arg
 50 55 60
 Val Pro Ala Thr Ser Pro Thr Pro Leu Ser Asp Ser Thr Pro Gly Ile
 65 70 75 80
 Ile Asp Asp Ile Leu Thr Val Arg Phe Thr Thr Asp Tyr Phe Glu Val
 85 90 95
 Ser Ser Lys Lys Asp Met Val Glu Glu Ser Glu Ala Gly Arg Gly Thr
 100 105 110
 Glu Thr Ser Leu Pro Asn Val His Ser Ser
 115 120

<210> 1124
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1124
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
 1 5 10 15
 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
 20 25 30
 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
 35 40 45
 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
 50 55 60

Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
 65 70 75 80
 Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val
 85 90 95
 Met Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr Phe
 100 105 110
 Ser Ser Gln Val Leu Leu Pro Leu Leu
 115 120

<210> 1125
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any amino acid

<400> 1125
 Met Ile Leu Phe Asp Leu Thr Phe Phe Leu Phe Ala Pro Arg Ile Leu
 1 5 10 15
 Ala Ser Gly Ala Cys Ser Cys Ser Ile Tyr Pro Lys Ile Thr Leu Pro
 20 25 30
 Thr Lys Tyr Phe Ala Phe Ile Ile Xaa Thr Ser Phe
 35 40

<210> 1126
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1126
 Met Val Ser Phe His Phe Gln Cys Thr Ser Tyr Phe Val Arg Leu Phe
 1 5 10 15
 Phe Gln Leu Gln Leu Phe Val Gly Leu Val Ile Val Leu Ala Leu Leu
 20 25 30
 Ile Ser His Ser Leu Thr Tyr Ser Phe His Lys His Leu
 35 40 45

<210> 1127
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (22)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (57)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (70)

<223> Xaa equals any amino acid

<400> 1127

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala
1 5 10 15

Leu Val Xaa Pro Ala Xaa Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
20 25 30

Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly Met
35 40 45

Thr Ala Glu Pro Pro Lys Gly Glu Xaa Arg Leu Ser Ser Arg Arg Thr
50 55 60

Phe His Ser Ile Thr Xaa Trp
65 70

<210> 1128

<211> 179

<212> PRT

<213> Homo sapiens

<400> 1128

Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro
1 5 10 15

Trp Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu
20 25 30

Cys His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly
35 40 45

Arg Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys
50 55 60

Ala Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu
65 70 75 80

Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser
85 90 95

Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser
100 105 110

Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser
 115 120 125

Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu
 130 135 140

Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu
 145 150 155 160

Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Gly
 165 170 175

Ala Leu Pro

<210> 1129
 <211> 64
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any amino acid

<400> 1129
 Met Ala Val Leu Leu Ile Thr Ile Leu Leu Phe Leu Cys Leu Gly Tyr
 1 5 10 15

Tyr Arg Val Ile Thr Glu Ile Ser Arg Lys Thr Pro Ala Cys Arg Met
 20 25 30

Phe Thr Ser Ser Leu Ser Ser Trp Tyr Ile Met Arg Lys Leu Tyr Asp
 35 40 45

Thr Pro Gly Glu Val Phe Leu Ser His Ala Ile Val Xaa Phe Leu Lys
 50 55 60

<210> 1130
 <211> 229
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (206)
 <223> Xaa equals any amino acid

<400> 1130
 Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala
 1 5 10 15

Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly

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<210> 1131
<211> 87
<212> PRT
<213> Homo sapiens
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<400> 1131
Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile
  1             5             10             15
Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
          20             25             30
Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro
          35             40             45
Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro
    50             55             60

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Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly
 65 70 75 80

Ala Glu Ser Ala Leu Leu Gly
 85

<210> 1132
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1132
 Met Ala Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn
 1 5 10 15
 Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser
 20 25 30
 Thr Cys Ser Ala Ala Pro Gly Thr Pro Gly Gly Ala Gln Asp Ser Ser
 35 40 45
 Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr
 50 55 60

<210> 1133
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1133
 Met Phe Cys Trp Ile Leu Val Cys Leu Ala Tyr Leu Lys Val Pro Leu
 1 5 10 15
 Leu Phe Phe Phe Phe Phe Phe Leu Ser Ala Leu Phe Cys Arg Thr Cys
 20 25 30
 Ser Asn Met Glu Asn Lys Ser Arg Arg Leu Ser Ser Asp Cys Tyr Leu
 35 40 45
 Cys Pro Lys Pro Pro Gln Thr Phe Met Leu Met Phe Tyr
 50 55 60

<210> 1134
 <211> 352
 <212> PRT
 <213> Homo sapiens

<400> 1134
 Met Leu Cys Arg Leu Cys Trp Leu Val Ser Tyr Ser Leu Ala Val Leu
 1 5 10 15
 Leu Leu Gly Cys Leu Leu Phe Leu Arg Lys Ala Ala Lys Pro Ala Glu
 20 25 30
 Thr Pro Arg Pro Thr Ser Leu Ser Gly Ala Pro Pro Thr Pro Arg His

| 35 | 40 | 45 |
|--|----|----|
| Ser Arg Cys Pro Pro Asn His Thr Val Ser Ser Ala Ser Leu Ser Leu 50 55 60 | | |
| Pro Ser Arg His Arg Leu Phe Leu Thr Tyr Arg His Cys Arg Asn Phe 65 70 75 80 | | |
| Ser Ile Leu Leu Glu Pro Ser Gly Cys Ser Lys Asp Thr Phe Leu Leu 85 90 95 | | |
| Leu Ala Ile Lys Ser Gln Pro Gly His Val Glu Arg Arg Ala Ala Ile 100 105 110 | | |
| Arg Ser Thr Trp Gly Arg Trp Gly Asp Gly Leu Gly Pro Ala Leu Lys 115 120 125 | | |
| Leu Val Phe Leu Leu Gly Val Ala Gly Ser Ala Pro Pro Ala Gln Leu 130 135 140 | | |
| Leu Ala Tyr Glu Ser Arg Glu Phe Asp Asp Ile Leu Gln Trp Asp Phe 145 150 155 160 | | |
| Thr Glu Asp Phe Phe Asn Leu Thr Leu Lys Glu Leu His Leu Gln Arg 165 170 175 | | |
| Trp Val Val Ala Ala Cys Pro Gln Ala His Phe Met Leu Lys Gly Asp 180 185 190 | | |
| Asp Asp Val Phe Val His Val Pro Asn Val Leu Glu Phe Leu Asp Gly 195 200 205 | | |
| Trp Asp Pro Ala Gln Asp Leu Leu Val Gly Asp Val Ile Arg Gln Ala 210 215 220 | | |
| Leu Pro Asn Arg Asn Thr Lys Val Lys Tyr Phe Ile Pro Pro Ser Met 225 230 235 240 | | |
| Tyr Arg Ala Thr His Tyr Pro Pro Tyr Ala Gly Gly Gly Gly Tyr Val 245 250 255 | | |
| Met Ser Arg Ala Thr Val Arg Arg Leu Gln Ala Ile Met Glu Asp Ala 260 265 270 | | |
| Glu Leu Phe Pro Ile Asp Asp Val Phe Val Gly Met Cys Leu Arg Arg 275 280 285 | | |
| Leu Gly Leu Ser Pro Met His His Ala Gly Phe Lys Thr Phe Gly Ile 290 295 300 | | |
| Arg Arg Pro Leu Asp Pro Leu Asp Pro Cys Leu Tyr Arg Gly Leu Leu 305 310 315 320 | | |
| Leu Val His Arg Leu Ser Pro Leu Glu Met Trp Thr Met Trp Ala Leu 325 330 335 | | |
| Val Thr Asp Glu Gly Leu Lys Cys Ala Ala Gly Pro Ile Pro Gln Arg 340 345 350 | | |

<210> 1135
 <211> 209
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (181)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (200)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (207)
 <223> Xaa equals any amino acid

<400> 1135
 Met Tyr Phe Leu Phe Phe Phe Ala Phe Phe Phe Phe Pro Leu Phe Cys
 1 5 10 15
 Tyr Cys Phe Asn Tyr Asn Lys Arg Ala Arg Gly Ser Gln Ala Leu Ala
 20 25 30
 Arg Ser Trp Arg Pro Met Gly Val Leu Gly Arg Gly Arg Gly Glu Val
 35 40 45
 Ser Gly Gly Gln Arg Trp Arg Val Lys Asn Glu Lys Val Gly Glu Leu
 50 55 60
 Gly Leu Ala Gln Glu Pro Cys Val Pro Ala His Ser Pro Pro Ser Leu
 65 70 75 80
 Pro Leu Pro Thr Ser Leu Pro Leu His Gly Phe Ser Pro Pro Leu Pro
 85 90 95
 Glu Ser Tyr Gly Thr Gly Pro Cys Ser Ser Gly Ile Gln Leu Leu Pro
 100 105 110
 Ala His Ser Ser Ser Trp Ala Thr Ser Pro Pro Thr Phe Asp Val Ser
 115 120 125
 Pro Pro Val Ala Thr Leu Gln Leu Ala Phe Gln Ala Pro Ser Arg Gly
 130 135 140
 Arg Pro Leu Pro Arg Pro Leu Thr His Val Ala Ile Pro Thr Trp Leu
 145 150 155 160
 Pro Val Met Ser Leu Leu Ser Lys Pro Ser Cys Pro Leu Phe Leu Pro
 165 170 175
 Pro Arg His Ala Xaa Thr Lys Trp Trp Lys Pro Pro Leu Ser Pro Ser
 180 185 190
 Leu Pro Cys Ala Glu Phe Ser Xaa Val Leu Asn Glu Gly Glu Xaa Asp

195

200

205

Lys

<210> 1136

<211> 45

<212> PRT

<213> Homo sapiens

<400> 1136

Met Val Lys Trp Ile Ile Leu Ser Cys Leu Ile Leu Lys Gly Lys Arg
 1 5 10 15

Thr Leu Asn Ser Ser Thr Phe Tyr Ala Ala Asn Lys Ser Ser Thr Ile
 20 25 30

Asn Arg Asn Leu Ser Trp Gln Ala Leu Pro Phe Thr His
 35 40 45

<210> 1137

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1137

Met Arg Ser Tyr Phe Pro Phe Ser Val Cys Pro Phe Pro Phe Cys Ser
 1 5 10 15

Pro Val Phe Phe Phe Val Phe Thr Asp Val Tyr Leu Cys Phe Phe Phe
 20 25 30

Val Phe Ala Val Gly Arg His Leu Ser Asp Pro Phe Pro Ile Leu Phe
 35 40 45

Phe Thr His Lys Cys Pro Asp Val
 50 55

<210> 1138

<211> 38

<212> PRT

<213> Homo sapiens

<400> 1138

Met Leu Lys Leu Ala Thr Ile Leu Leu Thr Leu Leu Leu Lys Asn Leu
 1 5 10 15

Asp Ala Gly Leu Thr Asp Lys Leu Ser Arg Ser Asn Phe Ile Thr Asp
 20 25 30

Phe Ile Leu Thr Lys Tyr
 35

<210> 1139
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1139
 Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala
 1 5 10 15
 Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
 20 25 30
 Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly
 35 40 45

<210> 1140
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1140
 Met Val Leu Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro
 1 5 10 15
 Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile
 20 25 30
 Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala
 35 40 45
 Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu
 50 55 60
 Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser
 65 70

<210> 1141
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1141
 Met Ala Ala Leu Leu Leu Ala Gly Ile Cys Ile Leu Leu Asn Gly Val
 1 5 10 15
 Ile Pro Gln Asp Gln Ser Ile Val Arg Thr Ser Leu Ala Val Leu Gly
 20 25 30
 Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly
 35 40 45
 Asn Cys Ile Pro Gln
 50

<210> 1142

<211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1142

Met Ser Pro Cys Ala His Ile Cys Leu Tyr Val Leu Val Phe Leu Cys
 1 5 10 15
 Asn Val Thr Arg Cys Lys Cys Val Arg Ala Phe Thr Thr Trp Asp Thr
 20 25 30
 Glu Lys Val Lys Tyr Phe Met Ala His Trp Ser Lys Leu Lys Arg Val
 35 40 45
 Arg Gly Thr Arg Val Glu
 50

<210> 1143
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1143

Met Trp Pro Ser Gln Val Pro Leu Leu Ala Phe Cys Phe Leu Leu Val
 1 5 10 15
 Lys Ser Thr Ser Asn Ile Asn Leu Pro Thr Pro Pro Ser Ser Leu
 20 25 30
 Glu Asn Ser Ser Phe Val Val Ser Gln Arg Gly Asn Leu Ile Val Phe
 35 40 45
 Gly Gly Gln Lys Lys Ala Thr Phe Arg Tyr His Phe Tyr Leu Asp Arg
 50 55 60
 Met Pro Phe Tyr Ser Gln Ile Ser Val Tyr Phe Val Asn Gly Phe Arg
 65 70 75 80
 Val Asn Gly Tyr Leu Cys Asn Asn
 85

<210> 1144
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 1144

Met Leu Trp Thr Leu Thr Phe Phe Leu Leu Gln Arg Ser Leu Thr Ser
 1 5 10 15
 Pro Trp Leu Phe Gly Leu Leu Phe Leu Gly Ser Ser Asn Thr Ala Val
 20 25 30
 Cys Cys Phe Leu Gly Gln Leu Ile Met Gly Pro Lys Gly Glu Arg Gly
 35 40 45
 Phe Pro Gly Pro Pro Gly Arg Cys Leu Cys Gly Pro Thr Met Asn Val

50 55 60
 Asn Asn Pro Ser Tyr Gly Glu Ser Val Tyr Gly Pro Ser Ser Pro Arg
 65 70 75 80
 Val Pro Val Val Arg Leu Ser Gly Arg Ser Leu Gly Trp Leu Ser Val
 85 90 95
 Arg Thr Ser His Leu Ile Leu Met Gly Leu Cys Lys Ile Leu Ser Val
 100 105 110
 Lys Leu Thr Phe Phe His Asp Ser Glu Tyr Thr Leu Ile Ile Gly Asn
 115 120 125
 Trp Lys Ile
 130

<210> 1145
 <211> 549
 <212> PRT
 <213> Homo sapiens

<400> 1145
 Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys
 1 5 10 15
 Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Lys Pro
 20 25 30
 Lys Cys Pro Ala Val Cys Thr Cys Thr Lys Asp Asn Ala Leu Cys Glu
 35 40 45
 Asn Ala Arg Ser Ile Pro Arg Thr Val Pro Pro Asp Val Ile Ser Leu
 50 55 60
 Ser Phe Val Arg Ser Gly Phe Thr Glu Ile Ser Glu Gly Ser Phe Leu
 65 70 75 80
 Phe Thr Pro Ser Leu Gln Leu Leu Leu Phe Thr Ser Asn Ser Phe Asp
 85 90 95
 Val Ile Ser Asp Asp Ala Phe Ile Gly Leu Pro His Leu Glu Tyr Leu
 100 105 110
 Phe Ile Glu Asn Asn Asn Ile Lys Ser Ile Ser Arg His Thr Phe Arg
 115 120 125
 Gly Leu Lys Ser Leu Ile His Leu Ser Leu Ala Asn Asn Asn Leu Gln
 130 135 140
 Thr Leu Pro Lys Asp Ile Phe Lys Gly Leu Asp Ser Leu Thr Asn Val
 145 150 155 160
 Asp Leu Arg Gly Asn Ser Phe Asn Cys Asp Cys Lys Leu Lys Trp Leu
 165 170 175
 Val Glu Trp Leu Gly His Thr Asn Ala Thr Val Glu Asp Ile Tyr Cys
 180 185 190

Glu Gly Pro Pro Glu Tyr Lys Lys Arg Lys Ile Asn Ser Leu Ser Ser
 195 200 205
 Lys Asp Phe Asp Cys Ile Ile Thr Glu Phe Ala Lys Ser Gln Asp Leu
 210 215 220
 Pro Tyr Gln Ser Leu Ser Ile Asp Thr Phe Ser Tyr Leu Asn Asp Glu
 225 230 235 240
 Tyr Val Val Ile Ala Gln Pro Phe Thr Gly Lys Cys Ile Phe Leu Glu
 245 250 255
 Trp Asp His Val Glu Lys Thr Phe Arg Asn Tyr Asp Asn Ile Thr Gly
 260 265 270
 Thr Ser Thr Val Val Cys Lys Pro Ile Val Ile Glu Thr Gln Leu Tyr
 275 280 285
 Val Ile Val Ala Gln Leu Phe Gly Gly Ser His Ile Tyr Lys Arg Asp
 290 295 300
 Ser Phe Ala Asn Lys Phe Ile Lys Ile Gln Asp Ile Glu Ile Leu Lys
 305 310 315 320
 Ile Arg Lys Pro Asn Asp Ile Glu Thr Phe Lys Ile Glu Asn Asn Trp
 325 330 335
 Tyr Phe Val Val Ala Asp Ser Ser Lys Ala Gly Phe Thr Thr Ile Tyr
 340 345 350
 Lys Trp Asn Gly Asn Gly Phe Tyr Ser His Gln Ser Leu His Ala Trp
 355 360 365
 Tyr Arg Asp Thr Asp Val Glu Tyr Leu Glu Ile Val Arg Thr Pro Gln
 370 375 380
 Thr Leu Arg Thr Pro His Leu Ile Leu Ser Ser Ser Ser Gln Arg Pro
 385 390 395 400
 Val Ile Tyr Gln Trp Asn Lys Ala Thr Gln Leu Phe Thr Asn Gln Thr
 405 410 415
 Asp Ile Pro Asn Met Glu Asp Val Tyr Ala Val Lys His Phe Ser Val
 420 425 430
 Lys Gly Asp Val Tyr Ile Cys Leu Thr Arg Phe Ile Gly Asp Ser Lys
 435 440 445
 Val Met Lys Trp Gly Gly Ser Ser Phe Gln Asp Ile Gln Arg Met Pro
 450 455 460
 Ser Arg Gly Ser Met Val Phe Gln Pro Leu Gln Ile Asn Asn Tyr Gln
 465 470 475 480
 Tyr Ala Ile Leu Gly Ser Asp Tyr Ser Phe Thr Gln Val Tyr Asn Trp
 485 490 495
 Asp Ala Glu Lys Ala Lys Phe Val Lys Phe Gln Glu Leu Asn Val Gln
 500 505 510
 Ala Pro Arg Ser Phe Thr His Val Ser Ile Asn Lys Arg Asn Phe Leu

515 520 525
 Phe Ala Ser Ser Phe Lys Gly Asn Thr Gln Ile Tyr Lys His Val Ile
 530 535 540

Val Asp Leu Ser Ala
 545

<210> 1146
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1146
 Met Leu Ser Pro Leu Asn His Leu Tyr Phe Pro Phe Arg Phe Leu Cys
 1 5 10 15

Met Leu Cys Ser Leu Pro Arg Val Val Phe Gln Leu Thr Pro Ile Lys
 20 25 30

Glu Ala Phe Pro Ser Gln Glu Leu Thr Phe Pro Cys Thr His
 35 40 45

<210> 1147
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1147
 Met Leu Leu Gly Phe Leu Cys Leu Trp Tyr Gln Val Tyr Val Cys Met
 1 5 10 15

Tyr Val Cys Thr Tyr Leu Phe Ile Tyr Leu Leu Phe Ser Leu Phe Ser
 20 25 30

Leu Pro His Met Ile Cys Lys Lys Ser Val Lys Phe Ile Met Ser Ser
 35 40 45

Pro Lys Pro Pro Ser Gly
 50

<210> 1148
 <211> 222
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any amino acid

<400> 1148
 Met His Phe Gln Arg Gln Lys Leu Met Ala Val Thr Glu Tyr Ile Pro
 1 5 10 15

Pro Lys Pro Ala Ile His Pro Ser Cys Leu Pro Ser Pro Pro Ser Pro
 20 25 30
 Pro Gln Glu Glu Ile Gly Leu Ile Arg Leu Leu Arg Arg Glu Ile Ala
 35 40 45
 Ala Val Phe Gln Asp Asn Arg Met Ile Ala Val Cys Gln Asn Val Ala
 50 55 60
 Leu Ser Ala Glu Asp Lys Leu Leu Met Arg His Gln Leu Arg Lys His
 65 70 75 80
 Lys Ile Leu Met Lys Xaa Phe Pro Asn Gln Val Leu Lys Pro Phe Leu
 85 90 95
 Glu Asp Ser Lys Tyr Gln Asn Leu Leu Pro Leu Phe Val Gly His Asn
 100 105 110
 Met Leu Leu Val Ser Glu Glu Pro Lys Val Lys Glu Met Val Arg Ile
 115 120 125
 Leu Arg Thr Val Pro Phe Leu Pro Leu Leu Gly Gly Cys Ile Asp Asp
 130 135 140
 Thr Ile Leu Ser Arg Gln Gly Phe Ile Asn Tyr Ser Lys Leu Pro Ser
 145 150 155 160
 Leu Pro Leu Val Gln Gly Glu Leu Val Gly Gly Leu Thr Cys Leu Thr
 165 170 175
 Ala Gln Thr His Ser Leu Leu Gln His Gln Pro Leu Gln Leu Thr Thr
 180 185 190
 Leu Leu Asp Gln Tyr Ile Arg Glu Gln Arg Glu Lys Asp Ser Val Met
 195 200 205
 Ser Ala Asn Gly Lys Pro Asp Pro Asp Thr Val Pro Asp Ser
 210 215 220

<210> 1149

<211> 519

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (205)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (207)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (213)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (225)

<223> Xaa equals any amino acid

<400> 1149

Met Gln Gly Gly Gln Arg Pro His Leu Leu Leu Leu Leu Ala Val
 1 5 10 15

Cys Leu Gly Ala Gln Ser Arg Asn Gln Glu Glu Arg Leu Leu Ala Asp
 20 25 30

Leu Met Arg Asn Tyr Asp Pro His Leu Arg Pro Ala Glu Arg Asp Ser
 35 40 45

Asp Val Val Asn Val Ser Leu Lys Leu Thr Leu Thr Asn Leu Ile Ser
 50 55 60

Leu Asn Glu Arg Glu Glu Ala Leu Thr Thr Asn Val Trp Ile Glu Met
 65 70 75 80

Gln Trp Cys Asp Tyr Arg Leu Arg Trp Asp Pro Lys Asp Tyr Glu Gly
 85 90 95

Leu Trp Ile Leu Arg Val Pro Ser Thr Met Val Trp Arg Pro Asp Ile
 100 105 110

Val Leu Glu Asn Asn Val Asp Gly Val Phe Glu Val Ala Leu Tyr Cys
 115 120 125

Asn Val Leu Val Ser Pro Asp Gly Cys Ile Tyr Trp Leu Pro Pro Ala
 130 135 140

Ile Phe Arg Ser Ser Cys Ser Ile Ser Val Thr Tyr Phe Pro Phe Asp
 145 150 155 160

Trp Gln Asn Cys Ser Leu Ile Phe Gln Ser Gln Thr Tyr Ser Thr Ser
 165 170 175

Glu Ile Asn Leu Gln Leu Ser Gln Glu Asp Gly Gln Ala Ile Glu Trp
 180 185 190

Ile Phe Ile Asp Pro Glu Ala Phe Thr Glu Asn Gly Xaa Trp Xaa Ile
 195 200 205

Arg His Arg Pro Xaa Lys Met Leu Leu Asp Ser Val Ala Pro Ala Glu
 210 215 220

Xaa Ala Gly His Gln Lys Val Val Phe Tyr Leu Leu Ile Gln Arg Lys
 225 230 235 240

Pro Leu Phe Tyr Val Ile Asn Ile Ile Ala Pro Cys Val Leu Ile Ser
 245 250 255

Ser Val Ala Ile Leu Ile Tyr Phe Leu Pro Ala Lys Ala Gly Gly Gln
 260 265 270

Lys Cys Thr Val Ala Thr Asn Val Leu Leu Ala Gln Thr Val Phe Leu
 275 280 285

Phe Leu Val Ala Lys Lys Val Pro Glu Thr Ser Gln Ala Val Pro Leu

290 295 300
 Ile Ser Lys Tyr Leu Thr Phe Leu Met Val Val Thr Ile Leu Ile Val
 305 310 315 320
 Val Asn Ser Val Val Val Leu Asn Val Ser Leu Arg Ser Pro His Thr
 325 330 335
 His Ser Met Ala Arg Gly Val Arg Lys Val Phe Leu Arg Leu Leu Pro
 340 345 350
 Gln Leu Leu Arg Met His Val Arg Pro Leu Ala Pro Ala Ala Val Gln
 355 360 365
 Asp Ala Arg Phe Arg Leu Gln Asn Gly Ser Ser Ser Gly Trp Pro Ile
 370 375 380
 Met Ala Arg Glu Glu Gly Asp Leu Cys Leu Pro Arg Ser Glu Leu Leu
 385 390 395 400
 Phe Arg Gln Arg Gln Arg Asn Gly Leu Val Gln Ala Val Leu Glu Lys
 405 410 415
 Leu Glu Asn Gly Pro Glu Val Arg Gln Ser Gln Glu Phe Cys Gly Ser
 420 425 430
 Leu Lys Gln Ala Ser Pro Ala Ile Gln Ala Cys Val Asp Ala Cys Asn
 435 440 445
 Leu Met Ala Arg Ala Arg Arg Gln Gln Ser His Phe Asp Ser Gly Asn
 450 455 460
 Glu Glu Trp Leu Leu Val Gly Arg Val Leu Asp Arg Val Cys Phe Leu
 465 470 475 480
 Ala Met Leu Ser Leu Phe Ile Cys Gly Thr Ala Gly Ile Phe Leu Met
 485 490 495
 Ala His Tyr Asn Gln Val Pro Asp Leu Pro Phe Pro Gly Asp Pro Arg
 500 505 510
 Pro Tyr Leu Pro Leu Pro Asp
 515

<210> 1150
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1150
 Met Val His Asn Cys Leu Leu Leu Leu Lys Phe Leu Leu Leu Phe Cys
 1 5 10 15
 Phe Pro Leu Ile Ser Tyr Gln Leu Met Asn Gly Ser Leu Gln Ser Leu
 20 25 30
 Gln Arg Leu Arg Met Ile Gln Asn Val Gln Cys Ile Val Leu Asn Lys
 35 40 45

Gln Glu Ala Glu Phe Leu Met Gly Ile Ser Phe Gln Ile Tyr Asp Trp
 50 55 60

Ser Leu Gly Phe
 65

<210> 1151
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 1151
 Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly
 1 5 10 15
 Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp Thr Glu Glu Ser Tyr Ser
 20 25 30
 Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser
 35 40 45
 Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn Gly Val Cys
 50 55 60
 Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr
 65 70 75 80
 Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys
 85 90 95
 Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys
 100 105 110
 Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg
 115 120 125
 Cys Asp Ala Lys Phe Arg Trp Cys Leu His Ser Ile Cys Ser Asp Leu
 130 135 140
 Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu
 145 150 155 160
 Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe
 165 170 175
 Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Glu Lys Glu
 180 185 190
 Glu Leu

<210> 1152
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (23)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any amino acid

<400> 1152
 Met Gly Cys Cys Ser Lys Lys Tyr Trp Gln Leu Leu Leu Gly Ala Ala
 1 5 10 15
 Pro Trp Gly Val Ile Pro Xaa Leu Leu Leu Trp Met Gly Thr Arg Ala
 20 25 30
 Pro His Phe Lys Asp Ser Val Ser Gln Gly Leu Pro Xaa Lys Ala Glu
 35 40 45
 Glu Ser Arg Ala Asn Phe Asn Gln Phe Leu Val Leu Leu Met Pro Lys
 50 55 60
 Glu Met Ile Val Leu Thr Ile Val His Pro Ile Val Arg Arg Ala
 65 70 75

<210> 1153
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1153
 Met Leu Ile Ala Lys Leu Pro Val Leu Glu Ser Ile Cys Phe Phe Met
 1 5 10 15
 Leu Phe Leu Asn Pro Leu Val Ile Leu Leu Ser Leu Asn Asn Ala Leu
 20 25 30
 Pro Leu Val Phe His Pro His Ser Glu Phe Leu Glu Asp His Asn Arg
 35 40 45
 Gly Asp Thr Leu Pro Ser Ile Val
 50 55

<210> 1154
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1154
 Met Met Ser Ser Cys Leu Val Val Val Ile Thr Leu Arg Ala Tyr Phe
 1 5 10 15
 Ser Trp Leu Gln Ala Ile Arg Ser Gln Val Val Trp Ser Arg Met Lys
 20 25 30
 Arg Leu Gln Ser Ala Ser Arg Gln Ser Gly Leu Ser Ile Pro Arg Ser
 35 40 45

Glu Met Ser Ala Leu His Arg Leu Gln Asp Trp Ser Asp Lys Ser His
 50 55 60

Ile Leu Phe Phe Ile Phe Leu Pro Arg Val Cys Arg Phe Pro Leu
 65 70 75

<210> 1155
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1155
 Met Val Lys Val Gly Ala Trp Arg Ala Val Gln Ile Leu Met Leu Phe
 1 5 10 15

Ala Asn Pro Gly His Ala Glu Gly Ala Cys Ile Ser Pro Gly Pro Ala
 20 25 30

Gly Lys Arg Glu Pro Leu Lys Leu Gly
 35 40

<210> 1156
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1156
 Met Ile Leu Leu Ile Ser Gln Cys Pro Leu Ser Ile Phe Ala Ala Pro
 1 5 10 15

Phe Ala Leu Pro Pro Lys Gly His Cys Gly Ser Phe Ser Asp Phe His
 20 25 30

Ser Gln Val Thr Leu His Lys Asn Ser Lys Leu Ile Phe Arg Ser His
 35 40 45

Lys Ser Ile Leu Leu
 50

<210> 1157
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1157
 Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Val Leu Leu
 1 5 10 15

Thr Asp Arg Thr Leu Ser Cys Arg Ser Val Gly Val Pro Cys Asn Val
 20 25 30

Arg Cys Gln Cys Ala Pro Ala Gly Gly Cys Leu Pro Val Arg Leu Leu
 35 40 45

Ala Gly Gln Gly Ser Gly Thr His Leu Arg Arg Gln Ser Ala Arg Ser
 50 55 60

Gln Ile Ser Ser Cys Met Leu Gly Glu Pro Leu Leu Ser Ser Lys Leu
 65 70 75 80

Ser Asp Arg Asp Ile
 85

<210> 1158

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1158

Met Glu Lys Leu Leu Thr Leu Tyr Leu Leu Leu Tyr Val Ser Tyr Trp
 1 5 10 15

Ser Val Ser Pro Thr Gly Gln Gly Ala Gly Leu Phe Ile Ala Gln Ser
 20 25 30

Ser Ala Pro Gly Leu Arg Gln Thr His Ser Arg His Leu Gly Asn Ala
 35 40 45

Trp Glu Arg Lys Glu Gly Arg Arg Glu Glu Gly Leu His Gly His Val
 50 55 60

<210> 1159

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1159

Met Tyr Glu Cys Phe Leu Ser Leu Ser Leu Leu Lys Ser Cys Lys Ala
 1 5 10 15

Val Ser Gly Leu Met Cys Leu Leu Leu Pro Arg Leu Gly Leu Leu Leu
 20 25 30

Leu Leu Pro Ser Glu Arg Cys Phe Cys Trp Ile Pro Val Tyr Ser Leu
 35 40 45

Ile Thr Cys Leu Ala Glu Cys Ser Val Val Leu Arg Asp Pro Gly Phe
 50 55 60

Ala Gly Ala Phe Gln Val His Arg Arg Gln Ala Cys Phe Ser Thr Leu
 65 70 75 80

Arg Trp Ser Cys Leu Leu Trp Trp Val Ser Arg Val Ser Ala Gly
 85 90 95

Arg Pro Leu Ile Gly Ser Pro His Met Met Ala Pro Ser Thr Phe Cys
 100 105 110

Pro Thr Val Arg Gly Pro Gly Thr Cys Ala Ser Ser Asp Pro Asp Gly
 115 120 125

<210> 1160
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1160
 Met Gln Pro Ala Cys Leu Ala Pro Cys Leu Asp Ala Leu Thr Ser Phe
 1 5 10 15
 Cys Leu Gly Leu Leu Lys Leu Thr Phe Cys Leu Ala Phe Phe Pro Ser
 20 25 30
 Gly Val Leu Glu Gly Glu Cys Ser Phe Phe Thr Met Ser Arg Ser Leu
 35 40 45
 Ser His Pro Arg Thr Leu His Arg Tyr Thr Thr Glu Arg Pro Ala His
 50 55 60
 Ser Arg His
 65

<210> 1161
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1161
 Met Ser Tyr Lys Trp Asn Ser Arg Val Cys Phe Leu Trp Ser Arg Thr
 1 5 10 15
 Phe His Leu Met Leu Leu Arg Leu Ile Cys Leu Val Ala Tyr Ile Ser
 20 25 30
 Thr Glu Val Ile Ser Phe Ile Ala Glu
 35 40

<210> 1162
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1162
 Met Thr Leu Met Cys Leu Cys Leu Ser Val Thr Val Leu His Pro Leu
 1 5 10 15
 Arg Ser Lys Glu Arg Leu Ser Gly Thr Phe Cys Gly Tyr Ser Ser Ser
 20 25 30
 Trp Cys Ser Pro Ala Ser Glu Ser Ser Ser Pro Gly Ser Leu Leu Thr

35 40 45
 Cys Ala Ala Ser Gly Ser His Pro Asp Cys Pro Leu Ser Gln Arg Leu
 50 55 60
 Leu Gly Val Gln Leu Ala Ala Leu Gly Arg Pro Gln Gly Leu Phe
 65 70 75

<210> 1163
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1163
 Met Thr Ala Met Ser Ile His Leu Phe Cys Thr Ala Leu Ser Cys Gly
 1 5 10 15
 Ser Ser Gly Gln Cys Asn Lys Ala Ile Lys Arg Asn Lys Ile Ser Asn
 20 25 30
 Asp Trp Lys Asp Val Asn Val Ser Ser Phe Ile Glu Asn Met Ile His
 35 40 45
 Arg Tyr Thr Tyr Thr Asn Ala Leu Asn Ser
 50 55

<210> 1164
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any amino acid

<400> 1164
 Met Arg Pro Gly Ser Phe Ser Phe Ile Ala Phe Leu Ala Thr Glu Val
 1 5 10 15
 Ser Ser Cys Phe Pro Gly Arg Pro Asp Cys Xaa Thr Gly Met Trp Leu
 20 25 30
 Leu Gln Leu Gln Lys Lys Gln Arg Thr Leu Leu Ala Met Ala Pro Arg
 35 40 45

Arg

<210> 1165
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1165

Met Lys Val Leu Ser Trp Ile His Phe Ile Leu Ile Ser Leu His Phe
 1 5 10 15
 Thr Ser Ser Leu Asp Pro Ser Ser Arg Gly Leu Gly Thr Phe Thr Asp
 20 25 30
 Ala Leu Pro Asp Ser Arg Ala Lys Val Trp Glu Gly Glu Met Glu Glu
 35 40 45
 Cys Pro Pro Val Cys Val Val Leu Cys Ala Thr Ala Thr Asp Ala Glu
 50 55 60
 Gly Phe Ser Gly
 65

<210> 1166
 <211> 377
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (164)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any amino acid

<400> 1166
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser
 1 5 10 15
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
 20 25 30
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
 35 40 45
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
 50 55 60
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
 65 70 75 80
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
 85 90 95
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
 100 105 110
 Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
 115 120 125
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
 130 135 140
 Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp

145 150 155 160
 Ile Lys Trp Xaa Ser Arg Trp Asp Thr Tyr Leu Thr Met Ser Asp Val
 165 170 175
 Gln Ile His Trp Phe Ser Ile Ile Asn Ser Val Val Val Val Phe Phe
 180 185 190
 Leu Ser Gly Ile Leu Ser Met Ile Ile Ile Arg Thr Leu Arg Lys Asp
 195 200 205
 Ile Ala Asn Tyr Xaa Lys Glu Asp Asp Ile Glu Asp Thr Met Glu Glu
 210 215 220
 Ser Gly Trp Lys Leu Val His Gly Asp Val Phe Arg Pro Pro Pro Val
 225 230 235 240
 Pro His Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu
 245 250 255
 Tyr Asp Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala
 260 265 270
 Leu Gln Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val
 275 280 285
 His Gly Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe
 290 295 300
 Lys Arg Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val
 305 310 315 320
 Pro Trp Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu
 325 330 335
 Gly Lys Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser
 340 345 350
 Ala Val His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu
 355 360 365
 Leu Leu Arg Leu Pro Lys Ala Ala Ile
 370 375

<210> 1167

<211> 26

<212> PRT

<213> Homo sapiens

<400> 1167

Met Phe His Ser Ser Leu Leu Val Phe Leu Ser Leu Leu Ser Gln Glu
 1 5 10 15

Ile Phe Thr Glu Tyr Asp Cys Met His Lys
 20 25

<210> 1168

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1168

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Met Trp Phe Leu His Trp Thr Leu Leu Gly Tyr Gly Pro Ala Gln Ile
 1             5             10             15
Leu Gly Met Trp Ala Val Ala Pro Leu Lys His Gln Trp Ala Glu Asp
             20             25             30
Glu Ser Trp Tyr Pro Pro Gly Thr Pro Pro Ser Ala Leu His Phe Thr
             35             40             45
Cys Asp Pro Gly Thr Ser Tyr
             50             55

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<210> 1169

<211> 166

<212> PRT

<213> Homo sapiens

<400> 1169

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Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe
 1             5             10             15
Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala
             20             25             30
Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr
             35             40             45
His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg
             50             55             60
Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser
             65             70             75             80
Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser
             85             90             95
Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu
             100             105             110
Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser
             115             120             125
Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu
             130             135             140
Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile
             145             150             155             160
Lys Ala Phe Pro Asp Ser
             165

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<210> 1170

<211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1170
 Met Leu Ser Leu Asp Phe Leu Asp Asp Val Arg Arg Met Asn Lys Arg
 1 5 10 15
 Gln Val Ser Leu Ser Val Leu Phe Phe Ser Trp Leu Phe Leu Ser Leu
 20 25 30
 Arg Gly Cys Cys Cys Gly Ala Arg Arg Thr Pro Gly Phe Trp Cys Glu
 35 40 45
 Gly Leu Ser Trp Ser Asp Thr Arg Val Ile Arg Phe Leu Trp Arg Leu
 50 55 60
 Trp Pro Glu Ala Ala Leu Ser Ala Ser Leu Phe Leu Thr Pro Asn
 65 70 75

<210> 1171
 <211> 76
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any amino acid

<400> 1171
 Met Asn Arg Gly Gln Arg Leu Cys Leu Ala Phe Val Ser Leu Phe Pro
 1 5 10 15
 Pro Cys Asn Ser Leu Xaa Pro Pro Pro Thr Leu Phe Pro Ser Pro Leu
 20 25 30
 Leu Pro Leu Ser Leu Thr Ser Pro Thr Pro His Ser Leu Ser Ser Leu
 35 40 45
 Ala Val Ser Cys Val Cys Val Gly Val Cys Val Phe Gly Cys Val Asn
 50 55 60
 Val Gly Ser Ser Thr Thr Gly Phe Cys Asn Leu Gly
 65 70 75

<210> 1172
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1172
 Met Tyr Leu Ile His Leu Tyr Gln Val Leu Lys Tyr Leu Asp Lys Ser
 1 5 10 15
 Lys Tyr Phe Val Phe Ser Phe Phe Leu Leu Ser Ile Leu Leu Thr Thr
 20 25 30

Val Lys Arg Cys Ser Ile Leu Ile Trp Ser Val Leu Arg Arg Lys Thr
 35 40 45

Met Lys Ala Glu Leu Val Cys Ala Thr Gln Ser Lys Pro Leu Leu Phe
 50 55 60

Phe Trp Lys Asp Gly Val Met Phe Phe Lys Asp Ser Asn Lys Tyr Pro
 65 70 75 80

Ala Val Ile Ser

<210> 1173
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1173
 Met Gly Phe His His Val Ser Gln Ala Ala Leu Val Leu Leu Leu Leu
 1 5 10 15

Leu Leu Leu Leu Leu Leu Phe Asp Thr Glu Ser Arg Ser Ser Leu Ala
 20 25 30

Thr Glu Arg Asp Ser Ile Ser Lys Lys Lys Asn Lys Lys Thr Lys Lys
 35 40 45

Lys Asn Arg Lys Glu Thr Lys Asn Val Val Leu Ile Leu Ile Asn Ser
 50 55 60

Asn Ser Phe Met Trp Leu Ala Ala Ala Leu
 65 70

<210> 1174
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1174
 Met Val Leu Pro Phe Val Leu Leu Phe Arg Pro Asn Phe Ile Ser Val
 1 5 10 15

Leu His Pro Leu Phe Tyr Ser His Cys Leu Phe Leu Tyr Leu Ile Ser
 20 25 30

Pro Val His Ser Ser Ser Ile Ile Tyr Tyr Lys Pro Asp His Cys His
 35 40 45

Tyr Thr Pro Phe Ile Pro Gly Leu Leu Gln
 50 55

<210> 1175
 <211> 27
 <212> PRT

<213> Homo sapiens

<400> 1175

Met Leu Thr Gln Asn Gly Leu Phe Val Phe Phe Phe Phe Gly Phe
 1 5 10 15
 Gln Ser Ser Cys Lys His Ala Lys Lys Lys Lys
 20 25

<210> 1176

<211> 82

<212> PRT

<213> Homo sapiens

<400> 1176

Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
 1 5 10 15
 Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
 20 25 30
 Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
 35 40 45
 Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
 50 55 60
 Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
 65 70 75 80
 Lys Ser

<210> 1177

<211> 36

<212> PRT

<213> Homo sapiens

<400> 1177

Met Val Phe Leu Leu Leu Leu Phe Gly Phe Phe Phe Asp Gly Ser
 1 5 10 15
 Leu Arg Ser Pro Leu Leu Leu Ile Ile His Leu Gly Pro Ala Pro Thr
 20 25 30
 Phe Leu Gln Ile
 35

<210> 1178

<211> 163

<212> PRT

<213> Homo sapiens

<400> 1178

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys

1 5 10 15
 Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
 20 25 30
 Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
 35 40 45
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly
 50 55 60
 Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn
 65 70 75 80
 Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys
 85 90 95
 Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val
 100 105 110
 Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe Val Leu
 115 120 125
 Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn Val Ser
 130 135 140
 Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly Lys Ala
 145 150 155 160
 Lys Arg His

<210> 1179
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1179
 Met Phe Met Trp Thr Ile Ser Ile Val Thr Phe Ser Ile Pro Leu Thr
 1 5 10 15
 Leu Pro Leu Pro Leu Arg Gly Glu Asn Lys Thr Leu Asn Gly Ser Asn
 20 25 30
 Ser Tyr Val Phe Tyr Phe Val Ser Glu Val Ser Lys Leu Leu Leu Leu
 35 40 45
 Ala Ser Phe Ser Leu Gly Gln Met Asp Val Ser Tyr Phe Pro Val Ser
 50 55 60

<210> 1180
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 1180

Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Leu Cys Gly Arg
 1 5 10 15

Pro Gly Arg Gly Gln Thr Gln Gln Glu Glu Glu Glu Glu Asp Glu Asp
 20 25 30

His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Glu Val Glu Glu
 35 40 45

Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg
 50 55 60

Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr
 65 70 75 80

Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly
 85 90 95

Asn Thr Glu Ser Gly Leu Leu Thr Thr His Ser Thr Trp Cys Thr Asp
 100 105 110

Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met
 115 120 125

Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser
 130 135 140

Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser
 145 150 155 160

Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu
 165 170 175

Gly Ala Met Gly Ala Arg Arg Pro
 180

<210> 1181

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1181

Met Phe Cys Phe Tyr Leu Asn Tyr Phe Thr Asn Leu Phe Leu Phe Leu
 1 5 10 15

Thr Cys Ser Arg Ser Glu Ser Leu Ser Ser Pro Thr Gly Pro Tyr Ser
 20 25 30

Gly Phe Pro Phe Leu Lys Ser Pro Pro Val Arg Asn Ser Leu Asn Lys
 35 40 45

Gly Pro Leu Leu Val Gln Tyr Tyr Ser Phe Ser Ser His Leu Arg Val
 50 55 60

Pro Arg Lys Lys Lys Gln Val Ile Arg Val Pro Val Arg Val Pro Pro
 65 70 75 80

Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His
 260 265 270
 Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile Lys Glu Asp
 275 280 285
 Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser Ser Asp Thr Ile
 290 295 300
 Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser Ala Arg Ala Leu Arg
 305 310 315 320
 Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu Thr Pro Thr Pro Ser
 325 330 335
 Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu Pro Thr Thr Asp Gly
 340 345 350
 Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser
 355 360 365
 Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala Gln Ser
 370 375 380
 Gln Ala Gly Ser Leu Val
 385 390

<210> 1183

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any amino acid

<400> 1183

Met Pro Val Leu Pro Gly Arg Thr Thr Ala Leu Leu Ser Leu Thr Leu
 1 5 10 15
 Ala Phe Ala Val Pro Cys Ser Gly Val Glu Ala Gly Pro Cys Val Pro
 20 25 30
 Arg Ser His Gly Cys Ser Ser Trp Glu Ala Ser Val Cys Val Thr Ser
 35 40 45
 Ser Thr Pro Gly Gly Ser Trp Arg Ala Arg Ala Leu Phe Pro Ser Ala
 50 55 60
 Ala Trp His Arg Xaa Ala Ala Trp Asp Ser Pro Trp Thr Gln Thr Gly
 65 70 75 80
 Asp Phe Ala Arg Gly Ala Met Gly Gly Ala Gly Ala Leu Pro Gly Gly
 85 90 95
 Cys Val Cys Ile Ser Gly Arg Pro Arg Ala Gln Lys Leu Pro Ala Leu
 100 105 110

<210> 1184
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 1184
 Met Ser Pro Arg Tyr Pro Gly Gly Pro Arg Pro Pro Leu Arg Ile Pro
 1 5 10 15
 Asn Gln Ala Leu Gly Gly Val Pro Gly Ser Gln Pro Leu Leu Pro Ser
 20 25 30
 Gly Met Asp Pro Thr Arg Gln Gln Gly His Pro Asn Met Gly Gly Pro
 35 40 45
 Met Gln Arg Met Thr Pro Pro Arg Gly Met Val Pro Leu Gly Pro Gln
 50 55 60
 Asn Tyr Gly Gly Ala Met Arg Pro Pro Leu Asn Ala Leu Gly Gly Pro
 65 70 75 80
 Gly Met Pro Gly Met Asn Met Gly Pro Gly Gly Gly Arg Pro Trp Pro
 85 90 95
 Asn Pro Thr Asn Ala Asn Ser Ile Pro Tyr Ser Ser Ala Ser Pro Gly
 100 105 110
 Asn Tyr Val Gly Pro Pro Gly Gly Gly Gly Pro Pro Gly Thr Pro Ile
 115 120 125
 Met Pro Ser Pro Ala Asp Ser Thr Asn Ser Gly Asp Asn Met Tyr Thr
 130 135 140
 Leu Met Asn Ala Val Pro Pro Gly Pro Asn Arg Pro Asn Phe Pro Met
 145 150 155 160
 Gly Pro Gly Ser Asp Gly Pro Met Gly Gly Leu Gly Gly Met Glu Ser
 165 170 175
 His His Met Asn Gly Ser Leu Gly Ser Gly Asp Met Asp Ser Ile Ser
 180 185 190
 Lys Asn Ser Pro Asn Asn Met Ser Leu Ser Asn Gln Pro Gly Thr Pro
 195 200 205
 Arg Asp Asp Gly Glu Met Gly Gly Asn Phe Leu Asn Pro Phe Gln Ser
 210 215 220
 Glu Ser Tyr Ser Pro Ser Met Thr Met Ser Val
 225 230 235

<210> 1185
 <211> 82

<212> PRT

<213> Homo sapiens

<400> 1185

Met Arg Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
 1 5 10 15

Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met
 20 25 30

Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr
 35 40 45

Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met
 50 55 60

Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
 65 70 75 80

Ser Arg

<210> 1186

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1186

Met Ile Asp Ile Cys His Ser Leu Arg Arg Glu His Phe Leu Leu Trp
 1 5 10 15

Ser Phe Leu Gly Leu Phe Tyr Trp Ala Val Asn Gly Lys Ser Val Cys
 20 25 30

Val Ser Leu Leu His Pro Lys His Leu Gly Lys Asn Glu Ser Leu Leu
 35 40 45

Ile

<210> 1187

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (13)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (72)

<223> Xaa equals any amino acid

<400> 1187

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Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val Xaa Xaa Gly Thr Gln
 1              5              10              15

Ser Pro Leu His Leu Ala Gly Ser Cys Pro Gly Gln Thr His Leu Ser
          20              25              30

Phe Pro Leu Gly Gln Asp Arg Gly Gln Gln Leu Gln Gln Lys Gln Gln
 35              40              45

Asp Leu Glu Gln Glu Gly Leu Glu Ala Thr Gln Gly Leu Leu Ala Gly
 50              55              60

Glu Trp Ala Pro Pro Leu Trp Xaa Leu Gly Ser Leu Phe Gln Ala Phe
 65              70              75              80

Val Lys Arg Glu Ser Gln Ala Tyr Ala
          85

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<210> 1188

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1188

```

Met Glu Arg Leu Val Leu Ser Leu Trp Ser Leu Thr Cys Arg Ala Ser
 1              5              10              15

Pro Ala Asn Thr His Pro Arg Thr Thr Ser Arg Thr Arg Thr Leu Asp
          20              25              30

Val Lys Thr Lys Cys Pro Val Glu Ala Val Lys Leu Ser Glu Met Leu
 35              40              45

Pro Pro Val
 50

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<210> 1189

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1189

```

Met Leu Tyr Asp Ser Asn Leu Cys Ser Val Trp His Leu Tyr Leu Ile
 1              5              10              15

Leu His Leu Cys Lys Thr Phe Val Tyr Cys Gly Cys Val His Ser Ser
          20              25              30

Tyr Leu Ile Ser Gly Thr Val Asn Thr Gln Tyr Phe Ile Val Gln Thr
 35              40              45

Val Leu Leu Phe
 50

```

<210> 1190
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1190
 Met Leu Phe Phe Cys Leu Leu Met Lys Met Leu Gly Pro Ser Arg Leu
 1 5 10 15
 Pro Phe Leu Ala Leu Thr Leu Cys Arg Phe Ile Leu Tyr Phe Gln Phe
 20 25 30
 Cys Tyr Leu Ile Ser Asp Ser Ser Pro Asp His Ser
 35 40

<210> 1191
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1191
 Met Leu Leu Ile Ser Ala Val Gln Val Phe Ile Leu Leu Ser Pro Ser
 1 5 10 15
 Phe Tyr Leu Ile Leu Tyr Leu Leu Arg Pro Gly Gly Thr Gly Arg Gly
 20 25 30
 Leu Glu Pro Ile Cys Pro Ala Ala Glu Trp Gly Gly Trp Arg Asp Gly
 35 40 45
 Tyr Leu Trp Leu Gln Tyr Gln Glu Pro Thr Val Ser Leu Asp Asn Trp
 50 55 60
 Gly Asn
 65

<210> 1192
 <211> 295
 <212> PRT
 <213> Homo sapiens

<400> 1192
 Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro
 1 5 10 15
 Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly
 20 25 30
 Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser
 35 40 45
 Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Asp Leu Ala Glu Val
 50 55 60

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Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Gln Glu Asn
 65              70              75              80
Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu
      85              90              95
Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly
      100            105            110
Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn
      115            120            125
Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu
      130            135            140
Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr
      145            150            155            160
Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu
      165            170            175
Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn
      180            185            190
Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn
      195            200            205
Leu Thr Ala Leu Val Arg Leu Glu Glu Leu Glu Leu Ser Gly Asn Arg
      210            215            220
Leu Asp Leu Ile Arg Pro Gly Ser Phe Gln Gly Leu Thr Ser Leu Arg
      225            230            235            240
Lys Leu Trp Leu Met His Ala Gln Val Ala Thr Ile Glu Arg Asn Ala
      245            250            255
Phe Asp Asp Leu Lys Ser Leu Glu Glu Leu Asn Leu Ser His Asn Asn
      260            265            270
Leu Met Ser Leu Pro His Asp Leu Phe Thr Pro Leu His Arg Leu Glu
      275            280            285
Gly Gly Pro Gly Thr Gln Phe
      290            295

```

<210> 1193

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (18)

<223> Xaa equals any amino acid

<400> 1193

Met Leu Pro Leu Met Thr Tyr Ile Ile Gln Tyr Ile Tyr Thr Tyr Ile
 1 5 10 15
 Xaa Xaa Val Arg Val Leu Ala Ile Leu Phe Leu Arg Arg Val Leu Ser
 20 25 30
 Gln Thr Leu Leu His Ala Val Tyr Gly Val Ser Cys Val Leu Ile Phe
 35 40 45

<210> 1194

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1194

Met Cys Phe Thr Gln Phe Ser Arg Ile Phe Phe Leu Thr Ser Ser Leu
 1 5 10 15
 Thr Leu Ala Ala Cys Ala Asn His Ile Leu Ala Ala Tyr Ser Ser Ser
 20 25 30
 Leu Ala Asp Arg Cys Val Gly Glu Lys Ser Leu Ile Val Ile Val Pro
 35 40 45
 Glu Arg Ser Phe Gln Thr His Phe
 50 55

<210> 1195

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1195

Met Arg Lys Thr Ala Trp Leu Cys Phe Phe Phe Gln Leu Cys Gly Leu
 1 5 10 15
 Gly Gln Val Thr Ser Leu Gln Tyr Arg Asn Cys Asn Val Glu Ile Lys
 20 25 30
 Pro Ser Leu Val Arg Gly Thr His Arg Ser Ile Pro
 35 40

<210> 1196

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1196

Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1 5 10 15

Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
 20 25 30

Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
 35 40 45

Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
 50 55 60

Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
 65 70 75 80

Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
 85 90 95

Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
 100 105

<210> 1197
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1197
 Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr
 1 5 10 15

Ser Phe Leu Thr Leu Ser Trp Tyr Thr Thr Trp Gln Asn Gly Lys Gly
 20 25 30

Lys Glu Asn Asp Ser Glu Asn Val His Glu Met Tyr
 35 40

<210> 1198
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 1198
 Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro
 1 5 10 15

Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr
 20 25 30

Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg
 35 40 45

Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val
 50 55 60

Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg
 65 70 75 80

Leu Ser Gln Asp Pro Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly Gly
 85 90 95

Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu
 100 105 110

Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr
 115 120 125

Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro
 130 135 140

Glu Pro Glu Leu Tyr Ala Ser Val Cys Ala Gln Thr Arg Arg Ala Arg
 145 150 155 160

Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser
 165 170 175

<210> 1199
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 1199
 Met Ala Cys Arg Lys Leu Ala Val Ala His Pro Leu Leu Leu Leu Arg
 1 5 10 15

His Leu Pro Met Ile Ala Ala Leu Leu His Gly Arg Thr His Leu Asn
 20 25 30

Phe Gln Glu Phe Arg Gln Gln Asn His Leu Ser Cys Phe Leu His Val
 35 40 45

Leu Gly Leu Leu Glu Leu Leu Gln Pro His Val Phe Arg Ser Glu His
 50 55 60

Gln Gly Ala Leu Trp Asp Cys Leu Leu Ser Phe Ile Arg Leu Leu Leu
 65 70 75 80

Asn Tyr Arg Lys Ser Ser Arg His Leu Ala Ala Phe Ile Asn Lys Phe
 85 90 95

Val Gln Phe Ile His Lys Tyr Ile Thr Tyr Asn Ala Pro Ala Ala Ile
 100 105 110

Ser Phe Leu Gln Lys His Ala Asp Pro Leu His Asp Leu Ser Phe Asp
 115 120 125

Asn Ser Asp Leu Val Met Leu Lys Ser Leu Leu Ala Gly Leu Ser Leu
 130 135 140

Pro Ser Arg Asp Asp Arg Thr Asp Arg Gly Leu Asp Glu Glu Gly Glu
 145 150 155 160

Glu Glu Ser Ser Ala Gly Ser Leu Pro Leu Val Ser Val Ser Leu Phe
 165 170 175

Thr Pro Leu Thr Ala Ala Glu Met Ala Pro Tyr Met Lys Arg Leu Ser

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                180                185                190
Arg Gly Gln Thr Val Glu Asp Leu Leu Glu Val Leu Ser Asp Ile Asp
      195                200                205

Glu Met Ser Arg Arg Arg Pro Glu Ile Leu Ser Phe Phe Ser Thr Asn
      210                215                220

Leu Gln Arg Leu Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala
      225                230                235                240

Phe Ser Leu Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala
      245                250                255

Ala Phe Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asp Phe Glu
      260                265                270

Val Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys
      275                280                285

Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly Met
      290                295                300

Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu Arg Ile
      305                310                315                320

Leu His Met Glu Ala Val Met
      325

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<210> 1200

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any amino acid

<400> 1200

```

Met Asn Val Thr Ser Val Ile Leu Val Leu Ile Leu Trp Asn Val Ile
  1                5                10                15

Gly Val Ala Thr Trp Val His Gln Asn Thr Phe Leu Tyr Lys Arg Gln
      20                25                30

Met Xaa Glu Leu Lys Arg Leu Lys Asp Arg Val Phe Cys Phe Phe Val
      35                40                45

Leu Ile Trp Leu Leu Gly Ile Lys Ile Arg Pro Arg Ser Leu Lys Ile
      50                55                60

Ser Asn Arg Gly Arg Pro Leu Ile Asp Leu Lys Ser Val Asn Ser Leu
      65                70                75                80

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<210> 1201
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any amino acid

<400> 1201
 Met Ala Ala Leu Leu Leu Leu Pro Trp Leu Met Leu Leu Thr Gly Arg
 1 5 10 15
 Val Ser Leu Ala Gln Phe Ala Leu Ala Phe Val Thr Asp Thr Cys Val
 20 25 30
 Ala Gly Ala Leu Leu Cys Gly Ala Xaa Leu Leu Phe His Gly Met Leu
 35 40 45
 Leu Leu Arg Gly Gln Thr Thr Trp Glu Trp Ala Arg Gly Gln His Ser
 50 55 60
 Tyr Asp Leu Gly Pro Cys His Asn Leu Gln Ala Ala Leu Gly Pro Arg
 65 70 75 80
 Trp Ala Leu Val Trp Leu Trp Pro Phe Leu Ala Ser Pro Leu Pro Gly
 85 90 95
 Asp Gly Ile Thr Phe Gln Thr Thr Ala Asp Val Gly Xaa Thr Ala Ser
 100 105 110

<210> 1202
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1202
 Met Phe Leu Val Phe Trp Leu Leu Gly Ile Tyr Phe Cys His Leu Leu
 1 5 10 15
 Val Ile Thr Val Leu Thr Lys Trp Ile Leu Ala Pro Pro Tyr Leu Met
 20 25 30
 Ala Gln Thr Thr Thr Pro Gln Ser Leu Tyr
 35 40

<210> 1203

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1203

```

Met Gly Ser Trp Phe Tyr Leu Phe Leu Ala Pro Leu Phe Lys Gly Leu
 1              5              10              15
Ala Gly Ser Leu Pro Phe Gly Cys Leu Ser Leu Leu Gln Pro Thr Glu
              20              25              30
Lys Thr Ala Leu Gln Ser Gly Gly Ser Ser
              35              40

```

<210> 1204

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1204

```

Met Gly Asp Lys Leu Gly Met Ala Arg Ala Pro Ser Val Ala Leu Ala
 1              5              10              15
Gln Leu Trp Leu Ile Cys Leu Cys Pro Glu Ser Leu Ala Ser Phe Val
              20              25              30
Gln Ala Val Pro Trp Lys Val Leu Gln Pro Ser Ser Asn Arg Ser Thr
              35              40              45
Asp Cys Ser Pro His Met Arg Pro Thr Cys Glu Thr Leu Gly Ser Arg
              50              55              60
Lys Ala Gln Asp Leu Val Leu Asp Thr Met Cys Leu Ser Thr Asp Asp
              65              70              75              80
Cys Gln Gly Leu Ile Cys Arg Gly His Arg Ser
              85              90

```

<210> 1205

<211> 223

<212> PRT

<213> Homo sapiens

<400> 1205

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Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr
 1              5              10              15
Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu
              20              25              30
Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His
              35              40              45
Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu
              50              55              60
Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu

```

```
<210> 1206
<211> 136
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any amino acid
```

```

<400> 1206
Met Leu Phe Ser Leu Arg Glu Leu Val Gln Trp Leu Gly Phe Ala Thr
  1             5             10             15

Phe Glu Ile Phe Val His Leu Leu Ala Leu Leu Val Phe Ser Val Leu
      20             25             30

Leu Ala Leu Arg Val Asp Gly Leu Val Pro Gly Leu Ser Trp Trp Asn
      35             40             45

Val Phe Val Pro Phe Phe Ala Asp Gly Leu Ser Thr Tyr Phe Thr
      50             55             60

Thr Ile Val Ser Val Arg Leu Phe Gln Asp Gly Glu Lys Arg Leu Ala
  65             70             75             80

Val Leu Arg Xaa Phe Trp Val Leu Thr Val Leu Ser Leu Lys Phe Val
      85             90             95

Phe Glu Met Leu Leu Cys Gln Lys Leu Ala Glu Gln Thr Arg Glu Leu

```

100 105 110
 Trp Phe Gly Leu Ile Thr Ser Pro Leu Phe Ile Leu Leu Gln Leu Leu
 115 120 125
 Met Ile Arg Ala Cys Arg Val Asn
 130 135

 <210> 1207
 <211> 293
 <212> PRT
 <213> Homo sapiens

 <400> 1207
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45
 Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
 50 55 60
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
 65 70 75 80
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
 85 90 95
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys
 100 105 110
 Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu
 115 120 125
 Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly
 130 135 140
 Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn
 145 150 155 160
 Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser
 165 170 175
 His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr
 180 185 190
 Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn
 195 200 205
 Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln
 210 215 220
 Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
 225 230 235 240

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<210> 1208
<211> 196
<212> PRT
<213> Homo sapiens
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<400> 1208
Met Lys Tyr Leu Arg His Arg Arg Pro Asn Ala Thr Leu Ile Leu Ala
  1              5              10              15
Ile Gly Ala Phe Thr Leu Leu Leu Phe Ser Leu Leu Val Ser Pro Pro
      20              25              30
Thr Cys Lys Val Gln Glu Gln Pro Pro Ala Ile Pro Glu Ala Leu Ala
      35              40              45
Trp Pro Thr Pro Pro Thr Arg Pro Ala Pro Ala Pro Cys His Ala Asn
      50              55              60
Thr Ser Met Val Thr His Pro Asp Phe Ala Thr Gln Pro Gln His Val
      65              70              75              80
Gln Asn Phe Leu Leu Tyr Arg His Cys Arg His Phe Pro Leu Leu Gln
      85              90              95
Asp Val Pro Pro Ser Lys Cys Ala Gln Pro Val Phe Leu Leu Leu Val
      100              105              110
Ile Lys Ser Ser Pro Ser Asn Tyr Val Arg Arg Glu Leu Leu Arg Arg
      115              120              125
Thr Trp Gly Arg Glu Arg Lys Val Arg Gly Leu Gln Leu Arg Leu Leu
      130              135              140
Phe Leu Val Gly Thr Ala Ser Asn Pro His Glu Ala Arg Lys Val Asn
      145              150              155              160
Arg Leu Leu Glu Leu Glu Ala Gln Thr His Gly Asp Ile Leu Gln Trp
      165              170              175
Asp Phe His Asp Ser Phe Phe Asn Leu Thr Leu Lys Gln Val Arg Trp
      180              185              190
Thr Gly Val Thr
      195

```


<210> 1209
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1209
 Met Gly Val Leu Leu Leu Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe
 1 5 10 15
 Ser Pro Val Val Leu Pro Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe
 20 25 30
 Val Phe Cys Thr Ser Phe Trp Arg Pro Leu Ser Phe Gln Lys Gly
 35 40 45

<210> 1210
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 1210
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln
 1 5 10 15
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg
 20 25 30
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
 35 40 45
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
 50 55 60
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
 65 70 75 80
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
 85 90 95
 Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
 100 105 110
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
 115 120 125
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
 130 135 140
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
 145 150 155 160
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
 165 170 175
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
 180 185 190
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
 195 200 205

Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
 210 215 220

Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
 225 230 235 240

Gly Tyr Gln

<210> 1211

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1211

Met Lys Leu Ser Gly Met Phe Leu Leu Leu Ser Leu Ala Leu Phe Cys
 1 5 10 15

Phe Leu Thr Gly Val Phe Ser Gln Gly Gly Gln Val Asp Cys Gly Glu
 20 25 30

Phe Gln Asp Thr Lys Val Tyr Cys Thr Arg Glu Ser Asn Pro His Cys
 35 40 45

Gly Ser Asp Gly Gln Thr Tyr Gly Asn Lys Cys Ala Phe Cys Lys Ala
 50 55 60

Ile Val Lys Ser Gly Gly Lys Ile Ser Leu Lys His Pro Gly Lys Cys
 65 70 75 80

<210> 1212

<211> 301

<212> PRT

<213> Homo sapiens

<400> 1212

Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val
 1 5 10 15

Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln
 20 25 30

Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg
 35 40 45

Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile
 50 55 60

Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu
 65 70 75 80

Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe
 85 90 95

Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met
 100 105 110
 Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln
 115 120 125
 Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val
 130 135 140
 Leu His Val Ser Trp Asn Asp Ala Arg Ala Tyr Cys Ala Trp Arg Gly
 145 150 155 160
 Lys Arg Leu Pro Thr Glu Glu Glu Trp Glu Phe Ala Ala Arg Gly Gly
 165 170 175
 Leu Lys Gly Gln Val Tyr Pro Trp Gly Asn Trp Phe Gln Pro Asn Arg
 180 185 190
 Thr Asn Leu Trp Gln Gly Lys Phe Pro Lys Gly Asp Lys Ala Glu Asp
 195 200 205
 Gly Phe His Gly Val Ser Pro Val Asn Ala Phe Pro Ala Gln Asn Asn
 210 215 220
 Tyr Gly Leu Tyr Asp Leu Leu Gly Asn Val Trp Glu Trp Thr Ala Ser
 225 230 235 240
 Pro Tyr Gln Ala Ala Glu Gln Asp Met Arg Val Leu Arg Gly Ala Ser
 245 250 255
 Trp Ile Asp Thr Ala Asp Gly Ser Ala Asn His Arg Ala Arg Val Thr
 260 265 270
 Thr Arg Met Gly Asn Thr Pro Asp Ser Ala Ser Asp Asn Leu Gly Phe
 275 280 285
 Arg Cys Ala Ala Asp Ala Gly Arg Pro Pro Gly Glu Leu
 290 295 300

<210> 1213
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1213
 Met Ala Ser Gly Ser Trp Thr Ser Ala Pro Gly Ile Gly Val Ile Leu
 1 5 10 15
 Val Met Thr Val Cys Leu Ser His Cys Tyr Thr His Glu Trp Gly Leu
 20 25 30
 Trp Gly Gly Gly Gly Thr Gln Gly Leu Thr Asp Ser
 35 40

<210> 1214
 <211> 692

<212> PRT

<213> Homo sapiens

<400> 1214

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Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
  1             5             10             15

Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
      20             25             30

Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
      35             40             45

Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
      50             55             60

His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
      65             70             75             80

Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
      85             90             95

Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys Ile Leu
      100            105            110

His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met Ser Gly
      115            120            125

Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr Ile Glu
      130            135            140

Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu Glu Arg
      145            150            155            160

Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp Gly
      165            170            175

Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln Ser Asp
      180            185            190

His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu Asn Val
      195            200            205

Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys Cys Asp
      210            215            220

Ser His Gly Thr His Leu Ala Gly Val Val Ser Gly Arg Asp Ala Gly
      225            230            235            240

Val Ala Lys Gly Ala Ser Met Arg Ser Leu Arg Val Leu Asn Cys Gln
      245            250            255

Gly Lys Gly Thr Val Ser Gly Thr Leu Ile Gly Leu Glu Phe Ile Arg
      260            265            270

Lys Ser Gln Leu Val Gln Pro Val Gly Pro Leu Val Val Leu Leu Pro
      275            280            285

Leu Ala Gly Gly Tyr Ser Arg Val Leu Asn Ala Ala Cys Gln Arg Leu
      290            295            300

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Ala Arg Ala Gly Val Val Leu Val Thr Ala Ala Gly Asn Phe Arg Asp
 305 310 315 320
 Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile Thr Val
 325 330 335
 Gly Ala Thr Asn Ala Gln Asp Gln Pro Val Thr Leu Gly Thr Leu Gly
 340 345 350
 Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu Asp Ile
 355 360 365
 Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe Val Ser Gln Ser Gly
 370 375 380
 Thr Ser Gln Ala Ala Ala His Val Ala Gly Ile Ala Ala Met Met Leu
 385 390 395 400
 Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln Arg Leu Ile
 405 410 415
 His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro Glu Asp
 420 425 430
 Gln Arg Val Leu Thr Pro Asn Leu Val Ala Ala Leu Pro Pro Ser Thr
 435 440 445
 His Gly Ala Gly Trp Gln Leu Phe Cys Arg Thr Val Trp Ser Ala His
 450 455 460
 Ser Gly Pro Thr Arg Met Ala Thr Ala Ile Ala Arg Cys Ala Pro Asp
 465 470 475 480
 Glu Glu Leu Leu Ser Cys Ser Ser Phe Ser Arg Ser Gly Lys Arg Arg
 485 490 495
 Gly Glu Arg Met Glu Ala Gln Gly Gly Lys Leu Val Cys Arg Ala His
 500 505 510
 Asn Ala Phe Gly Gly Glu Gly Val Tyr Ala Ile Ala Arg Cys Cys Leu
 515 520 525
 Leu Pro Gln Ala Asn Cys Ser Val His Thr Ala Pro Pro Ala Glu Ala
 530 535 540
 Ser Met Gly Thr Arg Val His Cys His Gln Gln Gly His Val Leu Thr
 545 550 555 560
 Gly Cys Ser Ser His Trp Glu Val Glu Asp Leu Gly Thr His Lys Pro
 565 570 575
 Pro Val Leu Arg Pro Arg Gly Gln Pro Asn Gln Cys Val Gly His Arg
 580 585 590
 Glu Ala Ser Ile His Ala Ser Cys Cys His Ala Pro Gly Leu Glu Cys
 595 600 605
 Lys Val Lys Glu His Gly Ile Pro Ala Pro Gln Glu Gln Val Thr Val
 610 615 620
 Ala Cys Glu Glu Gly Trp Thr Leu Thr Gly Cys Ser Ala Leu Pro Gly

625 630 635 640
 Thr Ser His Val Leu Gly Ala Tyr Ala Val Asp Asn Thr Cys Val Val
 645 650 655
 Arg Ser Arg Asp Val Ser Thr Thr Gly Ser Thr Ser Glu Glu Ala Val
 660 665 670
 Thr Ala Val Ala Ile Cys Cys Arg Ser Arg His Leu Ala Gln Ala Ser
 675 680 685
 Gln Glu Leu Gln
 690

<210> 1215
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1215
 Met Cys Arg Pro Leu Leu Pro Leu Leu Phe Pro Trp Gly His Cys Leu
 1 5 10 15
 Ser Ile Pro Leu Cys Lys Trp Pro Gln Ile Met Ser Gln Pro Pro Arg
 20 25 30
 Leu His Arg Leu Leu Ala Ser Gly Pro Ser Thr Lys Lys His Ser Lys
 35 40 45
 Leu Gln Thr His Ser Trp Glu Asn Ser Asn Gly Leu Thr Leu Pro Phe
 50 55 60
 Glu Pro Ala Arg Ser His Gly Leu Trp Arg Ala Ala Phe Glu Ser
 65 70 75

<210> 1216
 <211> 438
 <212> PRT
 <213> Homo sapiens

<400> 1216
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro
 1 5 10 15
 Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu
 20 25 30
 Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala
 35 40 45
 Trp Phe Ile Ala Gly Ile Phe Leu Leu Leu Thr Ile Pro Ile Ser Leu
 50 55 60
 Trp Val Ile Leu Gln His Leu Val His Tyr Thr Gln Pro Glu Leu Gln
 65 70 75 80
 Lys Pro Ile Ile Arg Ile Leu Trp Met Val Pro Ile Tyr Ser Leu Asp

| 85 | | | | | | | | | | 90 | | | | | | | | | | 95 | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Ser | Trp | Ile | Ala | Leu | Lys | Tyr | Pro | Gly | Ile | Ala | Ile | Tyr | Val | Asp | Thr | | | | | | | | | | | | | | | | | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | | | | | | | | | | | | | | | | | |
| Cys | Arg | Glu | Cys | Tyr | Glu | Ala | Tyr | Val | Ile | Tyr | Asn | Phe | Met | Gly | Phe | | | | | | | | | | | | | | | | | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | | | | | | | | | | | | | | | | | |
| Leu | Thr | Asn | Tyr | Leu | Thr | Asn | Arg | Tyr | Pro | Asn | Leu | Val | Leu | Ile | Leu | | | | | | | | | | | | | | | | | | |
| | | 130 | | | | 135 | | | | | 140 | | | | | | | | | | | | | | | | | | | | | | |
| Glu | Ala | Lys | Asp | Gln | Gln | Lys | His | Phe | Pro | Pro | Leu | Cys | Cys | Cys | Pro | | | | | | | | | | | | | | | | | | |
| 145 | | | | | 150 | | | | 155 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pro | Trp | Ala | Met | Gly | Glu | Val | Leu | Leu | Phe | Arg | Cys | Lys | Leu | Gly | Val | | | | | | | | | | | | | | | | | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | | | | | | | | | | | | | | | | | |
| Leu | Gln | Tyr | Thr | Val | Val | Arg | Pro | Phe | Thr | Thr | Ile | Val | Ala | Leu | Ile | | | | | | | | | | | | | | | | | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | | | | | | | | | | | | | | | | | |
| Cys | Glu | Leu | Leu | Gly | Ile | Tyr | Asp | Glu | Gly | Asn | Phe | Ser | Phe | Ser | Asn | | | | | | | | | | | | | | | | | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | | | | | | | | | | | | | | | | | |
| Ala | Trp | Thr | Tyr | Leu | Val | Ile | Ile | Asn | Asn | Met | Ser | Gln | Leu | Phe | Ala | | | | | | | | | | | | | | | | | | |
| | | 210 | | | | 215 | | | | 220 | | | | | | | | | | | | | | | | | | | | | | | |
| Met | Tyr | Cys | Leu | Leu | Leu | Phe | Tyr | Lys | Val | Leu | Lys | Glu | Glu | Leu | Ser | | | | | | | | | | | | | | | | | | |
| 225 | | | | | 230 | | | | | 235 | | | | 240 | | | | | | | | | | | | | | | | | | | |
| Pro | Ile | Gln | Pro | Val | Gly | Lys | Phe | Leu | Cys | Val | Lys | Leu | Val | Val | Phe | | | | | | | | | | | | | | | | | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | | | | | | | | | | | | | | | | | |
| Val | Ser | Phe | Trp | Gln | Ala | Val | Val | Ile | Ala | Leu | Leu | Val | Lys | Val | Gly | | | | | | | | | | | | | | | | | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | | | | | | | | | | | | | | | | | |
| Val | Ile | Ser | Glu | Lys | His | Thr | Trp | Glu | Trp | Gln | Thr | Val | Glu | Ala | Val | | | | | | | | | | | | | | | | | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | | | | | | | | | | | | | | | | | |
| Ala | Thr | Gly | Leu | Gln | Asp | Phe | Ile | Ile | Cys | Ile | Glu | Met | Phe | Leu | Ala | | | | | | | | | | | | | | | | | | |
| | | 290 | | | | 295 | | | | | 300 | | | | | | | | | | | | | | | | | | | | | | |
| Ala | Ile | Ala | His | His | Tyr | Thr | Phe | Ser | Tyr | Lys | Pro | Tyr | Val | Gln | Glu | | | | | | | | | | | | | | | | | | |
| 305 | | | | | 310 | | | | | 315 | | | | 320 | | | | | | | | | | | | | | | | | | | |
| Ala | Glu | Glu | Gly | Ser | Cys | Phe | Asp | Ser | Phe | Leu | Ala | Met | Trp | Asp | Val | | | | | | | | | | | | | | | | | | |
| | | | | 325 | | | | | 330 | | | | 335 | | | | | | | | | | | | | | | | | | | | |
| Ser | Asp | Ile | Arg | Asp | Asp | Ile | Ser | Glu | Gln | Val | Arg | His | Val | Gly | Arg | | | | | | | | | | | | | | | | | | |
| | | | 340 | | | | | 345 | | | | | 350 | | | | | | | | | | | | | | | | | | | | |
| Thr | Val | Arg | Gly | His | Pro | Arg | Lys | Lys | Leu | Phe | Pro | Glu | Asp | Gln | Asp | | | | | | | | | | | | | | | | | | |
| | | 355 | | | | | 360 | | | | | 365 | | | | | | | | | | | | | | | | | | | | | |
| Gln | Asn | Glu | His | Thr | Ser | Leu | Leu | Ser | Ser | Ser | Ser | Gln | Asp | Ala | Ile | | | | | | | | | | | | | | | | | | |
| | | 370 | | | | 375 | | | | | | 380 | | | | | | | | | | | | | | | | | | | | | |
| Ser | Ile | Ala | Ser | Ser | Met | Pro | Pro | Ser | Pro | Met | Gly | His | Tyr | Gln | Gly | | | | | | | | | | | | | | | | | | |
| 385 | | | | | 390 | | | | | 395 | | | | 400 | | | | | | | | | | | | | | | | | | | |
| Phe | Gly | His | Thr | Val | Thr | Pro | Gln | Thr | Thr | Pro | Thr | Thr | Ala | Lys | Ile | | | | | | | | | | | | | | | | | | |
| | | | | 405 | | | | | 410 | | | | | 415 | | | | | | | | | | | | | | | | | | | |

Ser Asp Glu Ile Leu Ser Asp Thr Ile Gly Glu Lys Lys Glu Pro Ser
 420 425 430

Asp Lys Ser Val Asp Ser
 435

<210> 1217
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 1217
 Met Leu Thr Cys Ile Asp Met Asp Trp Lys Val Leu Thr Trp Leu Arg
 1 5 10 15

Tyr Thr Leu Trp Ile Pro Leu Tyr Pro Leu Gly Met Phe Gly Gly Ser
 20 25 30

Cys Leu Ser Asp Ser Val His Ser Asn Ile Gln
 35 40

<210> 1218
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1218
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1 5 10 15

Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro
 20 25 30

Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
 35 40 45

Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser
 50 55 60

Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile
 65 70 75 80

Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Glu Arg Arg Asp Ile
 85 90 95

Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met
 100 105

<210> 1219
 <211> 222
 <212> PRT
 <213> Homo sapiens

<400> 1219

Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
 1 5 10 15
 Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
 20 25 30
 Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
 35 40 45
 Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
 50 55 60
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
 65 70 75 80
 Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu
 85 90 95
 Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile
 100 105 110
 Asn Asn Ala Phe Phe Leu Asn Asp Gln Thr Leu Glu Phe Leu Lys Ile
 115 120 125
 Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile
 130 135 140
 Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu
 145 150 155 160
 Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro
 165 170 175
 Ser Glu Val Asp Asp Ala Glu Asp Lys Cys Glu Asn Met Ile Thr Ile
 180 185 190
 Glu Asn Gly Ile Pro Ser Asp Pro Leu Asp Met Lys Gly Gly His Ile
 195 200 205
 Asn Asp Ala Phe Met Thr Glu Asp Glu Arg Leu Thr Pro Leu
 210 215 220

<210> 1220

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1220

Met Leu Ser Pro Gln Leu His Pro Leu Gln Val Pro Leu Pro Cys Leu
 1 5 10 15
 Leu Leu Leu Phe Thr Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp
 20 25 30
 Ile Ser Glu Asp Trp Glu Lys Asp Phe Asp Leu Asp Met Thr Glu Glu
 35 40 45
 Glu Val Gln Met Ala Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser
 50 55 60

Gly Pro Gly Gly Ser Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu
 65 70 75 80
 Ser Ser Pro Gln Pro Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser
 85 90 95
 Cys Leu Arg

<210> 1221
 <211> 93
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any amino acid

<400> 1221
 Met Gly His Leu Pro His Ile Leu Ser Leu Gly Leu Phe Leu Thr Leu
 1 5 10 15
 Leu Met Phe Cys Ile Thr Lys Ser Asp Gly Gln Asn Lys Ile Tyr Arg
 20 25 30
 Cys Phe Lys Lys Ala Ser Pro Gln Val Ile Val Thr His Thr Lys Met
 35 40 45
 Arg Ile Ala Ala Ile Ile Cys Ser Tyr Trp Xaa Gly Xaa Ala Asn Leu
 50 55 60
 Gly Thr Arg Ile Lys Leu Gln Leu Asn Ser Ala Val Tyr Lys Ile Phe
 65 70 75 80
 Val Ser Leu Xaa Arg Lys Arg Lys Arg Thr Leu Ser Trp
 85 90

<210> 1222
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1222
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg
 1 5 10 15

Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn
 20 25 30

Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr
 35 40 45

Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala
 50 55 60

Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met
 65 70 75 80

Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser
 85 90 95

<210> 1223
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1223
 Met Leu Leu Ser Lys Glu His Thr Ser Leu Gly Trp Leu Val Ile Phe
 1 5 10 15

Leu Thr Leu Ala Ser Gln Leu Ile Ser Tyr Gly Ser Arg Thr Gly Asn
 20 25 30

Ser Arg Cys Pro Pro Cys Leu Tyr Arg Thr Leu His Thr Val Ser Thr
 35 40 45

Ser His Val Leu Ser Ser Leu Phe Val Ser Thr Phe Ser Gly Asp Glu
 50 55 60

Leu Val Trp Thr Thr
 65

<210> 1224
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1224
 Met Glu Thr Leu Gly Ala Leu Leu Val Leu Glu Phe Leu Leu Ser
 1 5 10 15

Pro Val Glu Ala Gln Gln Ala Thr Glu His Arg Leu Lys Pro Trp Leu
 20 25 30

Val Gly Leu Ala Ala Val Val Gly Phe Leu Phe Ile Val Tyr Leu Val
 35 40 45

Leu Leu Ala Asn Arg Leu Trp Cys Ser Lys Ala Arg Ala Glu Asp Glu
 50 55 60

Glu Glu Thr Thr Phe Arg Met Glu Ser Asn Leu Tyr Gln Asp Gln Ser
 65 70 75 80

Glu Asp Lys Arg Glu Lys Lys Glu Ala Lys Glu Lys Glu Glu Lys Arg
 85 90 95
 Lys Lys Glu Lys Lys Thr Ala Lys Glu Gly Glu Ser Asn Leu Gly Leu
 100 105 110
 Asp Leu Glu Glu Lys Glu Pro Gly Asp His Glu Arg Ala Lys Ser Thr
 115 120 125
 Val Met
 130

<210> 1225
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1225
 Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile
 1 5 10 15
 Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val
 20 25 30
 Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe
 35 40 45
 Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu
 50 55 60
 Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu
 65 70 75 80

<210> 1226
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1226
 Met Phe Pro Trp Cys Val Cys Val Ile Ala Cys Ile Ser Ala Val Thr
 1 5 10 15
 Pro Leu Ile Gln Gly Phe Thr Phe Cys Ser Phe Ser Tyr Pro Gln Tyr
 20 25 30
 Ser Thr Val Arg Tyr Phe Glu Arg Glu Thr Thr Leu Thr Leu Leu Leu
 35 40 45
 Leu

<210> 1227
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1227
 Met Met Gly Leu Leu Glu Thr Gly Asn Val Leu Phe Trp Val Trp Val
 1 5 10 15
 Val Val Thr Cys Val Tyr Ser Leu Tyr Ala Asn Ser Leu Asn Cys Thr
 20 25 30
 Asp Met Asp Cys Ala Pro Phe Tyr Met Cys Val Met Leu Gln Gln Lys
 35 40 45
 Cys Gln
 50

<210> 1228
 <211> 280
 <212> PRT
 <213> Homo sapiens

<400> 1228
 Met Ala Pro Ser Gly Ser Leu Ala Val Pro Leu Ala Val Leu Val Leu
 1 5 10 15
 Leu Leu Trp Gly Ala Pro Trp Thr His Gly Arg Arg Ser Asn Val Arg
 20 25 30
 Val Ile Thr Asp Glu Asn Trp Arg Glu Leu Leu Glu Gly Asp Trp Met
 35 40 45
 Ile Glu Phe Tyr Ala Pro Trp Cys Pro Ala Cys Gln Asn Leu Gln Pro
 50 55 60
 Glu Trp Glu Ser Phe Ala Glu Trp Gly Glu Asp Leu Glu Val Asn Ile
 65 70 75 80
 Ala Lys Val Asp Val Thr Glu Gln Pro Gly Leu Ser Gly Arg Phe Ile
 85 90 95
 Ile Thr Ala Leu Pro Thr Ile Tyr His Cys Lys Asp Gly Glu Phe Arg
 100 105 110
 Arg Tyr Gln Gly Pro Arg Thr Lys Lys Asp Phe Ile Asn Phe Ile Ser
 115 120 125
 Asp Lys Glu Trp Lys Ser Ile Glu Pro Val Ser Ser Trp Phe Gly Pro
 130 135 140
 Gly Ser Val Leu Met Ser Ser Met Ser Ala Leu Phe Gln Leu Ser Met
 145 150 155 160
 Trp Ile Arg Thr Cys His Asn Tyr Phe Ile Glu Asp Leu Gly Leu Pro
 165 170 175
 Val Trp Gly Ser Tyr Thr Val Phe Ala Leu Ala Thr Leu Phe Ser Gly
 180 185 190

Leu Leu Leu Gly Leu Cys Met Ile Phe Val Ala Asp Cys Leu Cys Pro
 195 200 205
 Ser Lys Arg Arg Arg Pro Gln Pro Tyr Pro Tyr Pro Ser Lys Lys Leu
 210 215 220
 Leu Ser Glu Ser Ala Gln Pro Leu Lys Lys Val Glu Glu Glu Gln Glu
 225 230 235 240
 Ala Asp Glu Glu Asp Val Ser Glu Glu Glu Ala Glu Ser Lys Glu Gly
 245 250 255
 Thr Asn Lys Asp Phe Pro Gln Asn Ala Ile Arg Gln Arg Ser Leu Gly
 260 265 270
 Pro Ser Leu Ala Thr Asp Lys Ser
 275 280

<210> 1229
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1229
 Met Leu Thr Gly Ser His Pro Gln Thr His Thr Cys Trp Leu Gly Thr
 1 5 10 15
 Arg Leu Trp Val Val Leu Ser Cys Leu Ala Ser Leu Thr Val Ser Asp
 20 25 30
 Cys Pro Glu His Gln Val Ser Ser Cys Ile Ser Ser Trp Pro Gly Glu
 35 40 45
 His Ser Val Ser Phe Gln Pro Phe Pro Pro Phe Pro His Ser Leu Gly
 50 55 60
 Gly Thr Glu Val Gly Val Glu Glu Ser Gln Met Ala Gly Val Gly Ile
 65 70 75 80

<210> 1230
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1230
 Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
 1 5 10 15
 Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
 20 25 30
 Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
 35 40 45

Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
 50 55 60
 His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Gln
 65 70 75 80
 Ser Ala Tyr Pro Arg Leu Pro Gly Pro Gln Phe Pro His Leu His Asn
 85 90 95
 Gly Gly Asp His Pro Cys Pro Ala Gly Cys Gln Glu Arg Leu
 100 105 110

<210> 1231
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 1231
 Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu
 1 5 10 15
 Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe
 20 25 30
 Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe
 35 40 45
 Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala
 50 55 60
 Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Thr
 65 70 75 80
 Ala Thr Gln Thr Ser Pro Val Pro Leu Thr Pro Glu Ser Pro Leu Phe
 85 90 95
 Gln Asn Phe Ser Gly Tyr His Ile Gly Val Gly Arg Ala Asp Cys Thr
 100 105 110
 Gly Gln Val Ala Asp Ile Asn Leu Met Gly Tyr Gly Lys Ser Gly Gln
 115 120 125
 Asn Ala Gln Gly Ile Leu Thr Arg Leu Tyr Ser Arg Ala Phe Ile Met
 130 135 140
 Ala Glu Pro Asp Gly Ser Asn Arg Thr Val Phe Val Ser Ile Asp Ile
 145 150 155 160
 Gly Met Val Ser Gln Arg Leu Arg Leu Glu Val Leu Asn Arg Leu Gln
 165 170 175
 Ser Lys Tyr Gly Ser Leu Tyr Arg Arg Asp Asn Val Ile Leu Ser Gly
 180 185 190
 Thr His Thr His Ser Gly Pro Ala Gly Tyr Phe Gln Tyr Thr Val Phe
 195 200 205
 Val Ile Ala Ser Glu Gly Phe Ser Asn Gln Thr Phe Gln His Met Val

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      210              215              220
Thr Gly Ile Leu Lys Ser Ile Asp Ile Pro His Thr Asn Met Lys Pro
225              230              235              240
Gly Lys Ile Phe Ile Asn Lys Gly Asn Val Asp Gly Val Gln Ile Asn
      245              250              255
Arg Ser Pro Tyr Ser Tyr Leu Gln Asn Pro Gln Ser Glu Arg Ala Arg
      260              265              270
Tyr Ser Ser Asn Thr Asp Lys Glu Met Ile Val Leu Lys Met Val Asp
      275              280              285
Leu Asn Gly Asp Asp Leu Gly Leu Ile Ser Phe Ser Phe Ser Lys Ser
      290              295              300
Ala Leu Gly Thr Tyr Tyr Glu Pro Arg Asn Thr Ser Leu Glu
305              310              315

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<210> 1232
 <211> 55
 <212> PRT
 <213> Homo sapiens

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<400> 1232
Met Pro Gly Gly Arg Asp Gly Leu Leu Tyr Leu Tyr His Gly Tyr Ser
  1              5              10              15
Ala Leu Leu Leu Trp Pro Val Ala Phe Leu His Leu Leu Phe Leu Ile
      20              25              30
Leu Leu Gly Met Cys Phe Ala Cys Cys Ile Pro Thr Ser Ser Ala Pro
      35              40              45
Leu His Thr Pro Trp Leu Ala
      50              55

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<210> 1233
 <211> 163
 <212> PRT
 <213> Homo sapiens

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<400> 1233
Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
  1              5              10              15
Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
      20              25              30
Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
      35              40              45
Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly
      50              55              60
Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn

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<210> 1235
<211> 275

<212> PRT

<213> Homo sapiens

<400> 1235

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Met Thr Ile Thr Ser Phe Tyr Ala Val Cys Phe Tyr Leu Leu Met Leu
  1             5             10             15

Val Met Val Glu Gly Phe Gly Gly Lys Glu Ala Val Leu Arg Thr Leu
          20             25             30

Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys Cys Cys
      35             40             45

Pro Cys Cys Pro Arg Leu Leu Leu Thr Arg Lys Lys Leu Gln Leu Leu
      50             55             60

Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys Ile Thr Leu Thr Leu
      65             70             75             80

Val Gly Leu Phe Leu Ile Pro Asp Gly Ile Tyr Asp Pro Ala Asp Ile
          85             90             95

Ser Glu Gly Ser Thr Ala Leu Trp Ile Asn Thr Phe Leu Gly Val Ser
      100             105             110

Thr Leu Leu Ala Leu Trp Thr Leu Gly Ile Ile Ser Arg Gln Ala Arg
      115             120             125

Leu His Leu Gly Glu Gln Asn Met Gly Ala Lys Phe Ala Leu Phe Gln
      130             135             140

Val Leu Leu Ile Leu Thr Ala Leu Gln Pro Ser Ile Phe Ser Val Leu
      145             150             155             160

Ala Asn Gly Gly Gln Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr
          165             170             175

Arg Ser Gln Val Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu
      180             185             190

Met Thr Val Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val
      195             200             205

Gly Tyr Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Ser Lys Pro
      210             215             220

Lys Val Asp Gly Leu Asp Asn Glu Arg Met Leu Tyr Ser Leu Glu Tyr
      225             230             235             240

Lys Ile Pro Leu Leu Ser Leu Asn Leu Asp Gln Met Gly Ser Ile Pro
          245             250             255

Pro Cys Gln His Lys Leu Ala Asp Thr Phe Asp Ser Thr Asp Glu Gly
          260             265             270

Glu Gln Cys
      275

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<210> 1236

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1236

```

Met Asp Leu Thr Val Glu Gly Phe Gln Ser Trp Met Trp Arg Gly Leu
 1              5              10              15

Thr Phe Leu Leu Pro Phe Leu Phe Phe Gly His Phe Trp Gln Leu Phe
      20              25              30

Asn Ala Leu Thr Leu Phe Asn Leu Ala Gln Asp Pro Gln Cys Lys Glu
      35              40              45

Trp Gln Val Leu Met Cys Gly Phe Pro Phe Leu Leu Leu Phe Leu Gly
      50              55              60

Asn Phe Phe Thr Thr Leu Arg Val Val His His Lys Phe His Ser Gln
      65              70              75              80

Arg His Gly Ser Lys Lys Asp
              85

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<210> 1237

<211> 161

<212> PRT

<213> Homo sapiens

<400> 1237

```

Met Ala Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn
 1              5              10              15

Val Ser Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe
      20              25              30

Ala Glu Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val
      35              40              45

Pro Val Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys
      50              55              60

Lys Thr Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu
      65              70              75              80

Ile Ala Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr
              85              90              95

Leu Gly Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met
      100              105              110

Val Ala Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met
      115              120              125

Glu Asn Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met
      130              135              140

Pro Pro Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn
      145              150              155              160

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Glu

<210> 1238
 <211> 348
 <212> PRT
 <213> Homo sapiens

<400> 1238

```

Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu
 1              5              10              15

Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His
      20              25              30

Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly
      35              40              45

Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val
      50              55              60

Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr
      65              70              75              80

Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met
      85              90              95

Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp
      100             105             110

Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln
      115             120             125

Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp
      130             135             140

Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu
      145             150             155             160

Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys
      165             170             175

Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys
      180             185             190

Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu
      195             200             205

Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala
      210             215             220

Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu Lys Glu Thr
      225             230             235             240

Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu
      245             250             255

Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His Lys Tyr Ala Thr
      260             265             270

```

Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr
 275 280 285
 Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro
 290 295 300
 Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg
 305 310 315 320
 Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser
 325 330 335
 Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly
 340 345

<210> 1239
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 1239
 Met Arg Arg Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
 65 70 75 80
 Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
 85 90 95
 Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
 100 105 110
 Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
 115 120 125
 Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln
 130 135 140
 Asp His Ile Tyr His Pro Gln
 145 150

<210> 1240
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1240

Met Gln Val Ala Cys Val Met Lys Val Ser Ala Gln Trp Val Cys Phe
 1 5 10 15

Phe Val Val Phe Ser Pro Leu Cys Ser Ser Val Lys Cys Ala Ser Ser
 20 25 30

Gly Gln Asn Arg Gly Arg Gly Asp Gln
 35 40

<210> 1241

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1241

Met Thr Pro Leu Leu Thr Leu Ile Leu Val Val Leu Met Gly Leu Pro
 1 5 10 15

Leu Ala Gln Ala Leu Asp Cys His Val Cys Ala Tyr Asn Gly Asp Asn
 20 25 30

Cys Phe Asn Pro Met Arg Cys Pro Ala Met Val Ala Tyr Cys Met Thr
 35 40 45

Thr Arg Thr Tyr Tyr Thr Pro Thr Arg Met Lys Val Ser Lys Ser Cys
 50 55 60

Val Pro Arg Cys Phe Glu Thr Val Tyr Asp Gly Tyr Ser Lys His Ala
 65 70 75 80

Ser Thr Thr Ser Cys Cys Gln Tyr Asp Leu Cys Asn Gly Thr Gly Leu
 85 90 95

Ala Thr Pro Ala Thr Leu Ala Leu Ala Pro Ile Leu Leu Ala Thr Leu
 100 105 110

Trp Gly Leu Leu
 115

<210> 1242

<211> 21

<212> PRT

<213> Homo sapiens

<400> 1242

Asp Leu His Ile Lys Leu Leu Glu His Tyr Cys Leu Thr Ser Cys Lys
 1 5 10 15

Lys Val Leu Gln Leu
 20

<210> 1243

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1243

Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys Leu Ser
 1 5 10 15

Leu Leu Gln Gly Phe Arg Leu Leu Leu Cys Val Cys Pro Gly Trp
 20 25 30

Leu Ser Gly Trp Met Gly Gly Gln Lys Gly Ser Pro Arg Ile Val Asp
 35 40 45

Ile Gly
 50

<210> 1244

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any amino acid

<400> 1244

Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly Thr Gly Trp
 1 5 10 15

Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly
 20 25 30

Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu Arg Ser
 35 40 45

Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro
 50 55 60

Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala
 65 70 75 80

Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg
 85 90 95

Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His
 100 105 110

Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp
 115 120 125

Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Ala Trp Leu Leu Xaa Gln
 130 135 140

Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val
 145 150 155 160

Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu
 165 170 175

Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg
 180 185 190

Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Gly
 195 200 205

<210> 1245

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (9)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (13)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (95)

<223> Xaa equals any amino acid

<400> 1245

Met Ala Val Val Leu Ser Xaa Lys Xaa His Arg Gly Xaa Tyr Cys Gly
 1 5 10 15

Arg Thr Ser Leu Leu Leu Ser Leu Leu Ser Cys Leu Leu Leu Leu
 20 25 30

Leu Leu Leu Leu Leu Leu Leu Trp Ser Leu Ser Glu Ile Lys Thr Leu
 35 40 45

Lys Leu Ile Cys Ile Leu Ser Ala Arg Asp Ala Asp Gly Ser Arg Ala
 50 55 60

Lys Ser His Gly Phe Gln Ile Arg Tyr Ser Ala His Ser Phe Gln Gly
 65 70 75 80

His Arg Phe Leu Lys Gly Pro Gly Phe Glu Glu Met Ala Asn Xaa Glu
 85 90 95

Pro Ser Glu Asn Leu Ile Trp Lys Thr Cys Met
 100 105

<210> 1246

<211> 181

<212> PRT

<213> Homo sapiens

<400> 1246

```

Met Ala Ser Phe Leu Lys Gly Ile Thr Ala Thr Val Leu Ile Asn Ala
 1           5           10           15

Cys Val Ala Asn Thr Val Ala Pro Leu His Tyr Lys Asp Met Ile Ile
          20           25           30

Pro Lys Leu Val Asp Asp Leu Gly Lys Val Lys Ile Thr Lys Ser Gly
 35           40           45

Phe Leu Thr Phe Met Asp Thr Trp Ser Asn Pro Leu Glu Glu His Asn
 50           55           60

His Gln Ser Leu Val Pro Leu Glu Lys Ala Gln Val Pro Phe Leu Phe
 65           70           75           80

Ile Val Gly Met Asp Asp Gln Ser Trp Lys Ser Glu Phe Tyr Ala Gln
          85           90           95

Ile Ala Ser Glu Arg Leu Gln Ala His Gly Lys Glu Arg Pro Gln Ile
          100          105          110

Ile Cys Tyr Pro Glu Thr Gly His Cys Ile Asp Pro Pro Tyr Phe Pro
          115          120          125

Pro Ser Arg Ala Ser Val His Ala Val Leu Gly Glu Ala Ile Phe Tyr
          130          135          140

Gly Gly Glu Pro Lys Ala His Ser Lys Ala Gln Val Asp Ala Trp Gln
          145          150          155          160

Gln Ile Gln Thr Phe Phe His Lys His Leu Asn Gly Lys Lys Ser Val
          165          170          175

Lys His Ser Lys Ile
          180

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<210> 1247

<211> 190

<212> PRT

<213> Homo sapiens

<400> 1247

```

Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
 1           5           10           15

Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala Gln His
          20           25           30

Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
          35           40           45

Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
          50           55           60

Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
          65           70           75           80

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Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
 85 90 95

Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
 100 105 110

Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
 115 120 125

Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
 130 135 140

Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser
 145 150 155 160

His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu
 165 170 175

Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg
 180 185 190

<210> 1248
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1248
 Met Lys Ser Gln Ser Pro Leu Arg Ser Met Leu Leu Val Gly Gly Leu
 1 5 10 15

Val Ser Val Leu Ala Glu His Leu Gln His Pro Gln Ser Arg Gln Pro
 20 25 30

Pro Leu Ser His Leu Ser Ser His Leu Thr Trp Asp Ala Gln Val Glu
 35 40 45

Leu Asp Arg Ile Phe Leu Ser Ile Arg Pro Pro Glu Val Pro
 50 55 60

<210> 1249
 <211> 28
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any amino acid

<400> 1249
 Met Leu Xaa Gln Phe Phe Leu Phe Val Cys Phe His Phe Ile Thr Tyr
 1 5 10 15

Gly Phe Leu Cys His Thr Thr Arg Asn Phe Glu Lys
 20 25

<210> 1250
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any amino acid

<400> 1250
 Met Ile Leu Phe Pro Gln Xaa Ala Leu Arg Leu Gly Xaa Trp Pro Arg
 1 5 10 15
 Thr Trp Ser Ile Leu Xaa Lys Tyr Ser Val Asn Phe Phe Ser Ala Tyr
 20 25 30
 Ser Pro Met Gly Ala Val Gly Thr Glu Phe
 35 40

<210> 1251
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1251
 Met Leu Pro Ser Asn Trp Ser Gly Thr Trp Ala Leu Ile Gln Leu Ser
 1 5 10 15
 Ile Pro Phe Thr Leu Ala Phe His Gln Pro Asn Lys Asn Gln Leu Thr
 20 25 30
 Gln Lys Lys Arg Lys Ala Pro Gln Gly Ser Phe Asp Pro Asp Ile Tyr
 35 40 45
 Ile Asp Ala Ile Gly Val Pro
 50 55

<210> 1252
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 1252
 Met Phe Cys Phe Tyr Leu His Phe Ile Phe His Val Leu Ser Tyr Lys
 1 5 10 15

Leu Asn Pro Leu Leu Phe Phe Ser Cys Ser Cys Phe Cys Phe Ile Leu
 20 25 30

Val Phe Leu Phe Pro Asp Tyr His Leu Gly Met
 35 40

<210> 1253

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (264)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (303)

<223> Xaa equals any amino acid

<400> 1253

Met Asn Thr Asp His Leu Arg Leu Thr Val Pro Asn Gly Ile Gly Ala
 1 5 10 15

Leu Lys Leu Arg Glu Met Glu His Tyr Phe Ser Gln Gly Leu Ser Val
 20 25 30

Gln Leu Phe Asn Asp Gly Ser Lys Gly Lys Leu Asn His Leu Cys Gly
 35 40 45

Ala Asp Phe Val Lys Ser His Gln Lys Pro Pro Gln Gly Met Glu Ile
 50 55 60

Lys Ser Asn Glu Arg Cys Cys Ser Phe Asp Gly Asp Ala Asp Arg Ile
 65 70 75 80

Val Tyr Tyr Tyr His Asp Ala Asp Gly His Phe His Leu Ile Asp Gly
 85 90 95

Asp Lys Ile Ala Thr Leu Ile Ser Ser Phe Leu Lys Glu Leu Leu Val
 100 105 110

Glu Ile Gly Glu Ser Leu Asn Ile Gly Val Val Gln Thr Ala Tyr Ala
 115 120 125

Asn Gly Ser Ser Thr Arg Tyr Leu Glu Glu Val Met Lys Val Pro Val
 130 135 140

Tyr Cys Thr Lys Thr Gly Val Lys His Leu His His Lys Ala Gln Glu
 145 150 155 160

Phe Asp Ile Gly Val Tyr Phe Glu Ala Asn Gly His Gly Thr Ala Leu
 165 170 175

Phe Ser Thr Ala Val Glu Met Lys Ile Lys Gln Ser Ala Glu Gln Leu
 180 185 190

Glu Asp Lys Lys Arg Lys Ala Ala Lys Met Leu Glu Asn Ile Ile Asp
 195 200 205
 Leu Phe Asn Gln Ala Ala Gly Asp Ala Ile Ser Asp Met Leu Val Ile
 210 215 220
 Glu Ala Ile Leu Ala Leu Lys Gly Leu Thr Val Gln Gln Trp Asp Ala
 225 230 235 240
 Leu Tyr Thr Asp Leu Pro Asn Arg Gln Leu Lys Val Gln Val Ala Asp
 245 250 255
 Arg Arg Val Ile Ser Thr Thr Xaa Ala Glu Arg Gln Ala Val Thr Pro
 260 265 270
 Pro Gly Leu Gln Glu Ala Ile Asn Asp Leu Val Lys Lys Tyr Lys Leu
 275 280 285
 Ser Arg Ala Phe Val Arg Pro Ser Gly Thr Glu Asp Val Val Xaa Ser
 290 295 300
 Ile Cys Arg Ser Arg Leu Thr Arg Lys Cys Arg Ser Pro Cys Thr
 305 310 315

<210> 1254
 <211> 187
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (167)
 <223> Xaa equals any amino acid

<400> 1254
 Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr
 1 5 10 15
 Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu
 20 25 30
 Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val
 35 40 45
 Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Cys
 50 55 60
 Val Leu Val Phe Ser Leu Ala Leu His Ser Val Phe Glu Gly Leu Ala
 65 70 75 80
 Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala
 85 90 95
 Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser Leu Ser Leu Arg Leu
 100 105 110
 Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu
 115 120 125

Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu Gly Ala Ala Leu Ala
 130 135 140
 Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly
 145 150 155 160
 Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu Ile Leu Leu
 165 170 175
 Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg
 180 185

<210> 1255
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1255
 Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
 1 5 10 15
 Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
 20 25 30
 Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
 35 40 45
 Ser Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
 50 55 60
 Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
 65 70 75 80
 Ser Gln Gln Pro Cys Pro Gln Glu Leu Gln Thr Ala Arg Lys Ser Lys
 85 90 95
 Ser Cys Thr Ala Trp Pro Thr Ser Gln Cys Thr Arg Ser Ser Arg Arg
 100 105 110
 Cys

<210> 1256
 <211> 140
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any amino acid

<400> 1256
 Met Phe Leu Phe Gly Gly Phe Leu Met Thr Leu Phe Gly Leu Phe Val
 1 5 10 15
 Ser Leu Val Phe Leu Gly Gln Ala Phe Thr Ile Met Leu Val Tyr Val

```
<210> 1257
<211> 278
<212> PRT
<213> Homo sapiens
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| | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| <400> 1257 | | | | | | | | | | | | | | | | | |
| Met | Gln | Trp | Leu | Arg | Val | Arg | Glu | Ser | Pro | Gly | Glu | Ala | Thr | Gly | His | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Arg | Val | Thr | Met | Gly | Thr | Ala | Ala | Leu | Gly | Pro | Val | Trp | Ala | Ala | Leu | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| Leu | Leu | Phe | Leu | Leu | Met | Cys | Glu | Ile | Pro | Met | Val | Glu | Leu | Thr | Phe | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| Asp | Arg | Ala | Val | Ala | Ser | Asp | Cys | Gln | Arg | Cys | Cys | Asp | Ser | Glu | Asp | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Pro | Leu | Asp | Pro | Ala | His | Val | Ser | Ser | Ala | Ser | Ser | Ser | Gly | Arg | Pro | | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | | |
| His | Ala | Leu | Pro | Glu | Ile | Arg | Pro | Tyr | Ile | Asn | Ile | Thr | Ile | Leu | Lys | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | |
| Gly | Asp | Lys | Gly | Asp | Pro | Gly | Pro | Met | Gly | Leu | Pro | Gly | Tyr | Met | Gly | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Arg | Glu | | Pro | Gln | Gly | Glu | Pro | Gly | Pro | Gln | Gly | Ser | Lys | Gly | Asp | | |
| | | 115 | | | | | 120 | | | | | 125 | | | | | |
| Lys | Gly | Glu | Met | Gly | Ser | Pro | Gly | Ala | Pro | Cys | Gln | Lys | Arg | Phe | Phe | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Ala | Phe | Ser | Val | Gly | Arg | Lys | Thr | Ala | Leu | His | Ser | Gly | Glu | Asp | Phe | | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | | |

Gln Thr Leu Leu Phe Glu Arg Val Phe Val Asn Leu Asp Gly Cys Phe
 165 170 175

Asp Met Ala Thr Gly Gln Phe Ala Ala Pro Leu Arg Gly Ile Tyr Phe
 180 185 190

Phe Ser Leu Asn Val His Ser Trp Asn Tyr Lys Glu Thr Tyr Val His
 195 200 205

Ile Met His Asn Gln Lys Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser
 210 215 220

Glu Arg Ser Ile Met Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr
 225 230 235 240

Gly Asp Arg Val Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala
 245 250 255

Ile Tyr Ser Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu
 260 265 270

Ile Lys Ala Glu Asp Asp
 275

<210> 1258
 <211> 354
 <212> PRT
 <213> Homo sapiens

<400> 1258
 Met Trp Arg Leu Trp Pro Gly Ser Pro Leu Val Pro Leu Ser Trp Leu
 1 5 10 15

Trp Pro Ala Arg Ala Ala Phe Leu Ser Gly Pro Trp Thr Leu Pro Pro
 20 25 30

Cys Leu Pro Asp Pro Leu Leu Ala Val Pro Lys Cys Cys Leu Thr Leu
 35 40 45

Gly Ile His Leu Leu Pro Ala Trp Pro Gly Pro Pro Val Gly Gly Gly
 50 55 60

Cys Ser Gln Leu His Arg Gly Cys Cys Tyr Pro Gly Met Gly Cys Leu
 65 70 75 80

Asn Arg Asp Leu Cys Pro Pro Ser Leu Val Ser Arg Arg Trp Gly Asp
 85 90 95

Gln Leu Leu Trp Ser Pro Asp Gly Ser Lys Ile Leu Ala Thr Thr Pro
 100 105 110

Ser Ala Val Phe Arg Val Trp Glu Ala Gln Met Trp Thr Cys Glu Arg
 115 120 125

Trp Pro Thr Leu Ser Gly Arg Cys Gln Thr Gly Cys Trp Ser Pro Asp
 130 135 140

Gly Ser Arg Leu Leu Phe Thr Val Leu Gly Glu Pro Leu Ile Tyr Ser
 145 150 155 160

Leu Ser Phe Pro Glu Arg Cys Gly Glu Gly Lys Gly Cys Val Gly Gly
 165 170 175
 Ala Lys Ser Ala Thr Ile Val Ala Asp Leu Ser Glu Thr Thr Ile Gln
 180 185 190
 Thr Pro Asp Gly Glu Glu Arg Leu Gly Gly Glu Ala His Ser Met Val
 195 200 205
 Trp Asp Pro Ser Gly Glu Arg Leu Ala Val Leu Met Lys Gly Lys Pro
 210 215 220
 Arg Val Gln Asp Gly Lys Pro Val Ile Leu Leu Phe Arg Thr Arg Asn
 225 230 235 240
 Ser Pro Val Phe Glu Leu Leu Pro Cys Gly Ile Ile Gln Gly Glu Pro
 245 250 255
 Gly Ala Gln Pro Gln Leu Ile Thr Phe His Leu Pro Ser Thr Lys Gly
 260 265 270
 Pro Cys Ser Val Trp Ala Gly Pro Gln Ala Glu Leu Pro Thr Ser Arg
 275 280 285
 Cys Thr Leu Ser Met Pro Ser Phe His Val Leu Ala Gln Cys Leu Gly
 290 295 300
 Gly Pro Arg Asn Pro Leu Leu Gly Val Glu Ala Leu Phe Met Thr Cys
 305 310 315 320
 Pro Ser Leu Leu Arg His Pro Gln Pro Leu Pro Leu Gly Thr Leu Ser
 325 330 335
 Gln Gly His His Leu Phe Cys Pro Thr Pro His Ile Pro Thr Ser Lys
 340 345 350
 Asn Lys

<210> 1259
 <211> 338
 <212> PRT
 <213> Homo sapiens

<400> 1259
 Met Arg Lys Pro Ala Ala Gly Phe Leu Pro Ser Leu Leu Lys Val Leu
 1 5 10 15
 Leu Leu Pro Leu Ala Pro Ala Ala Ala Gln Asp Ser Thr Gln Ala Ser
 20 25 30
 Thr Pro Gly Ser Pro Leu Ser Pro Thr Glu Tyr Glu Arg Phe Phe Ala
 35 40 45
 Leu Leu Thr Pro Thr Trp Lys Ala Glu Thr Thr Cys Arg Leu Arg Ala
 50 55 60
 Thr His Gly Cys Arg Asn Pro Thr Leu Val Gln Leu Asp Gln Tyr Glu

```
<210> 1260
<211> 60
<212> PRT
<213> Homo sapiens
<400> 1260
```

Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile
 1 5 10 15
 Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro
 20 25 30
 Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile
 35 40 45
 Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr
 50 55 60

<210> 1261
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 1261
 Met Asp Thr Asp Asn Gly Gly Arg His Phe Lys Pro Phe Lys Leu Val
 1 5 10 15
 Leu Phe Val Val Leu Leu Ile Lys Ile Leu Leu Ile Leu Ala Lys Thr
 20 25 30
 Asn Cys Cys Asp Lys Leu Val Phe Phe Gly Cys Phe Lys His Thr Leu
 35 40 45
 Thr Asn Phe Leu Ile Pro Leu Leu Val Pro Pro Ile Val Leu Lys
 50 55 60

<210> 1262
 <211> 298
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any amino acid

<400> 1262
 Met Phe Phe Phe Phe Asp Ser Val Gln Val Val Phe Thr Ile Cys Thr
 1 5 10 15
 Ala Val Leu Ala Thr Ile Ala Phe Ala Phe Leu Leu Leu Pro Met Cys
 20 25 30
 Gln Tyr Leu Thr Arg Pro Cys Ser Pro Gln Asn Lys Ile Ser Phe Gly
 35 40 45
 Cys Cys Gly Arg Phe Thr Ala Ala Glu Leu Leu Ser Phe Ser Leu Ser
 50 55 60
 Val Met Leu Val Leu Ile Trp Val Leu Thr Gly His Trp Leu Leu Met
 65 70 75 80
 Asp Ala Leu Ala Met Gly Xaa Cys Val Ala Met Ile Ala Phe Val Arg

```
<210> 1263
<211> 232
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (67)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (70)
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<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (71)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (82)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (92)

<223> Xaa equals any amino acid

<400> 1263

Met Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr
1 5 10 15

Leu Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn
20 25 30

Cys Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu Asp His
35 40 45

Trp Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala
50 55 60

Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val
65 70 75 80

Arg Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys
85 90 95

Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val
100 105 110

Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr
115 120 125

Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe
130 135 140

Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His
145 150 155 160

Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg
165 170 175

Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr
180 185 190

Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr
195 200 205

Leu Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys
210 215 220

Ser Ile Glu Trp Lys Ile Asn Ile

225

230

<210> 1264
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1264
 Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Pro Gln
 1 5 10 15
 Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp
 20 25 30
 Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro
 35 40 45
 Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser
 50 55

<210> 1265
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1265
 Met Thr Leu Ser Leu Gln Leu Ala Glu Leu Val His Phe Val Cys Ala
 1 5 10 15
 Phe Gln Ser Gln Trp Thr Gly Val Tyr Pro Met Met Pro Pro Leu Lys
 20 25 30
 Pro Thr Glu Pro Leu Cys Phe Ala Cys Val Pro Cys Arg Val
 35 40 45

<210> 1266
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1266
 Met Gln Ser Gly Arg Ser Trp Ala Leu Lys Met Val Leu Leu Cys Asn
 1 5 10 15
 Ser Cys Leu Gly Leu Gly Val Gly Ser Val Gly Pro Ser Met Ser Ser
 20 25 30
 Leu Phe Gly Ala Val Leu Ser Glu Thr Pro Gly Ser Ser Val Tyr
 35 40 45

<210> 1267
 <211> 77
 <212> PRT

<213> Homo sapiens

<400> 1267

```

Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu
 1              5              10              15

Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu
          20              25              30

Leu Cys Gly Trp Lys Val Lys Cys Asp Asn Asp Val Cys Glu Met Pro
          35              40              45

Ala Gln Cys Leu Glu Val Leu Lys Asn Tyr Leu Leu Pro Phe Leu Phe
 50              55              60

Leu Pro Thr Thr Tyr Pro Leu Pro Pro Gly Ala Thr Cys
 65              70              75

```

<210> 1268

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1268

```

Met Ala Ser Pro Gly Trp His Leu Ser Cys Arg Pro Thr Gly Leu Val
 1              5              10              15

Ser Ile Phe Leu Leu Cys Ala Pro Ala Tyr Leu His Ser Phe Val Met
          20              25              30

Thr Ser Ile Thr Leu Ile Ser Thr Lys Ile Cys Ser Pro Thr Lys Leu
          35              40              45

Arg His Arg Thr His Phe Leu Tyr Gly Ser Ile Met Glu Leu Tyr Pro
 50              55              60

Thr Leu Thr Phe Pro Met Thr Thr Asp Val Glu Asn Leu Asn Leu Asp
 65              70              75              80

Ser Ser Arg

```

<210> 1269

<211> 222

<212> PRT

<213> Homo sapiens

<400> 1269

```

Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys
 1              5              10              15

Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly
          20              25              30

Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile
 35              40              45

```

Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser
 50 55 60

Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His
 65 70 75 80

Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala
 85 90 95

Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn
 100 105 110

Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile
 115 120 125

Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile
 130 135 140

Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys
 145 150 155 160

Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu
 165 170 175

Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser
 180 185 190

Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu
 195 200 205

Thr Lys Ala Gln Lys Glu Lys Leu Arg Cys Glu Asn Asn Ala
 210 215 220

<210> 1270
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1270
 Met Phe Ser Arg Leu His Phe Leu Thr His Ser Leu Ser Leu Leu His
 1 5 10 15

Leu Pro Ser Gln Val Phe Gly Glu Val His Ser Ser Cys Val Ser Ser
 20 25 30

Leu Pro Cys Pro Asp Thr Pro Ala Leu Pro Tyr Cys Pro Ser Phe Leu
 35 40 45

Arg Tyr Asp Asp His Ile Glu Ala Gln Pro Leu Lys His Ile Asn Thr
 50 55 60

Asn Asp His Ile Ser Ile
 65 70

<210> 1271
 <211> 73
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any amino acid

<400> 1271

```

Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Phe Leu Leu
 1             5             10             15

Thr Val Arg Thr Arg Ser Phe Xaa Ser Val Gly Val Cys Trp Arg Ser
          20             25             30

Thr Pro Asp Pro Leu Cys Leu Gly Ile Ser Ser Arg Ser Cys Arg Thr
          35             40             45

Ala Asp Ile Gly Glu Gln Gln Met Leu Leu Pro Asp Arg Ser Ser Gly
 50             55             60

Ser Phe Val Ser Glu Tyr Pro Ala Met
 65             70

```

<210> 1272

<211> 88

<212> PRT

<213> Homo sapiens

<400> 1272

```

Met Val Ala Gly Phe Val Phe Tyr Leu Gly Val Phe Val Val Cys His
 1             5             10             15

Gln Leu Ser Ser Ser Leu Asn Ala Thr Tyr Arg Ser Leu Val Ala Arg
          20             25             30

Glu Lys Val Phe Trp Asp Leu Ala Ala Thr Arg Ala Val Phe Gly Val
          35             40             45

Gln Ser Thr Ala Ala Ala Val Gly Ser Ala Gly Gly Pro Cys Ala Ala
          50             55             60

Cys Arg Gln Gly Ala Trp Pro Ala Glu Leu Val Leu Val Ser His His
          65             70             75             80

Asp Ser Asn Gly Ile Leu Leu Leu
          85

```

<210> 1273

<211> 713

<212> PRT

<213> Homo sapiens

<400> 1273

```

Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1             5             10             15

His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro

```

| 20 | | | | | 25 | | | | | 30 | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Leu | Leu | Glu | Val | Gln | Gly | Thr | Leu | Gln | Arg | Pro | Leu | Val | Arg |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Asp | Ser | Arg | Thr | Ser | Pro | Ala | Asn | Cys | Thr | Trp | Leu | Ile | Leu | Gly | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Lys | Glu | Gln | Thr | Val | Thr | Ile | Arg | Phe | Gln | Lys | Leu | His | Leu | Ala | Cys |
| | 65 | | | | | 70 | | | | | 75 | | | | 80 |
| Gly | Ser | Glu | Arg | Leu | Thr | Leu | Arg | Ser | Pro | Leu | Gln | Pro | Leu | Ile | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Leu | Cys | Glu | Ala | Pro | Pro | Ser | Pro | Leu | Gln | Leu | Pro | Gly | Gly | Asn | Val |
| | | | 100 | | | | | 105 | | | | | | 110 | |
| Thr | Ile | Thr | Tyr | Ser | Tyr | Ala | Gly | Ala | Arg | Ala | Pro | Met | Gly | Gln | Gly |
| | | 115 | | | | | 120 | | | | | | 125 | | |
| Phe | Leu | Leu | Ser | Tyr | Ser | Gln | Asp | Trp | Leu | Met | Cys | Leu | Gln | Glu | Glu |
| | 130 | | | | | | 135 | | | | | 140 | | | |
| Phe | Gln | Cys | Leu | Asn | His | Arg | Cys | Val | Ser | Ala | Val | Gln | Arg | Cys | Asp |
| | 145 | | | | | 150 | | | | | 155 | | | | 160 |
| Gly | Val | Asp | Ala | Cys | Gly | Asp | Gly | Ser | Asp | Glu | Ala | Gly | Cys | Ser | Ser |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Asp | Pro | Phe | Pro | Gly | Leu | Thr | Pro | Arg | Pro | Val | Pro | Ser | Leu | Pro | Cys |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Asn | Val | Thr | Leu | Glu | Asp | Phe | Tyr | Gly | Val | Phe | Ser | Ser | Pro | Gly | Tyr |
| | | 195 | | | | | 200 | | | | | | 205 | | |
| Thr | His | Leu | Ala | Ser | Val | Ser | His | Pro | Gln | Ser | Cys | His | Trp | Leu | Leu |
| | | 210 | | | | | 215 | | | | | 220 | | | |
| Asp | Pro | His | Asp | Gly | Arg | Arg | Leu | Ala | Val | Arg | Phe | Thr | Ala | Leu | Asp |
| | 225 | | | | | 230 | | | | | 235 | | | | 240 |
| Leu | Gly | Phe | Gly | Asp | Ala | Val | His | Val | Tyr | Asp | Gly | Pro | Gly | Pro | Pro |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Glu | Ser | Ser | Arg | Leu | Leu | Arg | Ser | Leu | Thr | His | Phe | Ser | Asn | Gly | Lys |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Ala | Val | Thr | Val | Glu | Thr | Leu | Ser | Gly | Gln | Ala | Val | Val | Ser | Tyr | His |
| | | | 275 | | | | 280 | | | | | | 285 | | |
| Thr | Val | Ala | Trp | Ser | Asn | Gly | Arg | Gly | Phe | Asn | Ala | Thr | Tyr | His | Val |
| | 290 | | | | | | 295 | | | | | 300 | | | |
| Arg | Gly | Tyr | Cys | Leu | Pro | Trp | Asp | Arg | Pro | Cys | Gly | Leu | Gly | Ser | Gly |
| | 305 | | | | | 310 | | | | | 315 | | | | 320 |
| Leu | Gly | Ala | Gly | Glu | Gly | Leu | Gly | Glu | Arg | Cys | Tyr | Ser | Glu | Ala | Gln |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Arg | Cys | Asp | Gly | Ser | Trp | Asp | Cys | Ala | Asp | Gly | Thr | Asp | Glu | Glu | Asp |
| | | | 340 | | | | | 345 | | | | | 350 | | |

Cys Pro Gly Cys Pro Pro Gly His Phe Pro Cys Gly Ala Ala Gly Thr
 355 360 365
 Ser Gly Ala Thr Ala Cys Tyr Leu Pro Ala Asp Arg Cys Asn Tyr Gln
 370 375 380
 Thr Phe Cys Ala Asp Gly Ala Asp Glu Arg Arg Cys Arg His Cys Gln
 385 390 395 400
 Pro Gly Asn Phe Arg Cys Arg Asp Glu Lys Cys Val Tyr Glu Thr Trp
 405 410 415
 Val Cys Asp Gly Gln Pro Asp Cys Ala Asp Gly Ser Asp Glu Trp Asp
 420 425 430
 Cys Ser Tyr Val Leu Pro Arg Lys Val Ile Thr Ala Ala Val Ile Gly
 435 440 445
 Ser Leu Val Cys Gly Leu Leu Leu Val Ile Ala Leu Gly Cys Thr Cys
 450 455 460
 Lys Leu Tyr Ala Ile Arg Thr Gln Glu Tyr Ser Ile Phe Ala Pro Leu
 465 470 475 480
 Ser Arg Met Glu Ala Glu Ile Val Gln Gln Gln Ala Pro Pro Ser Tyr
 485 490 495
 Gly Gln Leu Ile Ala Gln Gly Ala Ile Pro Pro Val Glu Asp Phe Pro
 500 505 510
 Thr Glu Asn Pro Asn Asp Asn Ser Val Leu Gly Asn Leu Arg Ser Leu
 515 520 525
 Leu Gln Ile Leu Arg Gln Asp Met Thr Pro Gly Gly Gly Pro Gly Ala
 530 535 540
 Arg Arg Arg Gln Arg Gly Arg Leu Met Arg Arg Leu Val Arg Arg Leu
 545 550 555 560
 Arg Arg Trp Gly Leu Leu Pro Arg Thr Asn Thr Pro Ala Arg Ala Ser
 565 570 575
 Glu Ala Arg Ser Gln Val Thr Pro Ser Ala Ala Pro Leu Glu Ala Leu
 580 585 590
 Asp Gly Gly Thr Gly Pro Ala Arg Glu Gly Gly Ala Val Gly Gly Gln
 595 600 605
 Asp Gly Glu Gln Ala Pro Pro Leu Pro Ile Lys Ala Pro Leu Pro Ser
 610 615 620
 Ala Ser Thr Ser Pro Ala Pro Thr Thr Val Pro Glu Ala Pro Gly Pro
 625 630 635 640
 Leu Pro Ser Leu Pro Leu Glu Pro Ser Leu Leu Ser Gly Val Val Gln
 645 650 655
 Ala Leu Arg Gly Arg Leu Leu Pro Ser Leu Gly Pro Pro Gly Pro Thr
 660 665 670

Arg Ser Pro Pro Gly Pro His Thr Ala Val Leu Ala Leu Glu Asp Glu
 675 680 685
 Asp Asp Val Leu Leu Val Pro Leu Ala Glu Pro Gly Val Trp Val Ala
 690 695 700
 Glu Ala Glu Asp Glu Pro Leu Leu Thr
 705 710

<210> 1274
 <211> 340
 <212> PRT
 <213> Homo sapiens

<400> 1274
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140
 Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
 145 150 155 160
 Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
 165 170 175
 Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
 180 185 190
 Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg
 195 200 205
 Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr
 210 215 220
 Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala
 225 230 235 240

Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg
 245 250 255
 Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile
 260 265 270
 His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro
 275 280 285
 Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His
 290 295 300
 Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp
 305 310 315 320
 Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser
 325 330 335
 Ile Lys Glu Lys
 340

<210> 1275
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1275
 Met Gly Leu Trp Phe Pro Met Leu Ile Leu Thr Gln Arg Phe Val Ser
 1 5 10 15
 Cys Asp Ser His Pro Asp Pro Lys His Thr His Thr His Ala His Ile
 20 25 30
 Asn Thr His Thr His Arg His Val His Thr Gln Thr His Met His Thr
 35 40 45
 His Ile His Thr Pro Trp Phe Glu Glu Lys Arg Asp Gly Asn Arg His
 50 55 60
 Ser Thr His Ala Tyr Ser Ala Pro Leu Cys Ile Gly Asn
 65 70 75

<210> 1276
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1276
 Met Ala Cys Cys Asn Pro Tyr Lys Tyr Tyr Phe Tyr Leu Ser Cys Ser
 1 5 10 15
 Val Cys Phe Leu
 20

<210> 1277
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1277
 Met Lys Lys Val Ala Arg Leu Ser Ser Leu Gly His Val Val Trp Arg
 1 5 10 15
 Leu Tyr Ala Arg Val Leu Ala Leu Ile Thr Cys Ile Phe Trp Val Leu
 20 25 30
 Ala Leu Ile Ile Cys Ile Phe Thr Pro Gln Ile Phe Phe Lys His Leu
 35 40 45
 Leu His Ala Arg Pro Cys Ser Arg Tyr Arg Arg Tyr Asn Ser Lys Asn
 50 55 60
 Thr Asp Leu Ala Leu Met Lys Leu Lys Leu Leu Arg Gln Ala Asp Ser
 65 70 75 80
 Asp Lys

<210> 1278
 <211> 88
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any amino acid

<400> 1278
 Met Ser Gly Ser Ser Leu Pro Arg Ala Leu Ala Leu Ser Leu Leu Leu
 1 5 10 15
 Val Ser Gly Ser Leu Leu Pro Gly Pro Gly Ala Ala Gln Asn Val Lys
 20 25 30
 Ser Thr Ile Trp Thr Gly Ser Glu Val Glu Asn Glu Val Val Lys Arg
 35 40 45
 Lys Gly Lys Asp Arg Arg Lys Ala Ala Val Val Gln Gly Glu Lys Gln
 50 55 60
 Asp Ala Arg Leu Lys Glu Xaa Asn Leu Cys Leu Arg Ser Ile Pro Glu
 65 70 75 80
 Asn Tyr Lys Leu Phe Arg Lys Gly
 85

<210> 1279
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1279

Met Tyr Arg Phe Phe Leu Cys Val Asp Leu Ser Phe Gln Leu Leu Trp
 1 5 10 15
 Val Ile Pro Arg Ser Thr Val Thr Gly Thr Tyr Gly Lys Asp Ile Phe
 20 25 30
 Ser Leu Ala Gly Asn His His Thr Val Phe Gln Ser Ser Cys Thr Ile
 35 40 45
 Leu His Thr His Gln His
 50

<210> 1280

<211> 266

<212> PRT

<213> Homo sapiens

<400> 1280

Met Trp Trp Phe Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val
 1 5 10 15
 Ile Trp Thr Ser Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr
 20 25 30
 Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr
 35 40 45
 Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala
 50 55 60
 Val Leu Cys Ile Ala Thr Ile Tyr Val Arg Tyr Lys Gln Val His Ala
 65 70 75 80
 Leu Ser Pro Glu Glu Asn Val Ile Ile Lys Leu Asn Lys Ala Gly Leu
 85 90 95
 Val Leu Gly Ile Leu Ser Cys Leu Gly Leu Ser Ile Val Ala Asn Phe
 100 105 110
 Gln Lys Thr Thr Leu Phe Ala Ala His Val Ser Gly Ala Val Leu Thr
 115 120 125
 Phe Gly Met Gly Ser Leu Tyr Met Phe Val Gln Thr Ile Leu Ser Tyr
 130 135 140
 Gln Met Gln Pro Lys Ile His Gly Lys Gln Val Phe Trp Ile Arg Leu
 145 150 155 160
 Leu Leu Val Ile Trp Cys Gly Val Ser Ala Leu Ser Met Leu Thr Cys
 165 170 175
 Ser Ser Val Leu His Ser Gly Asn Phe Gly Thr Asp Leu Glu Gln Lys
 180 185 190
 Leu His Trp Asn Pro Glu Asp Lys Gly Tyr Val Leu His Met Ile Thr
 195 200 205

Thr Ala Ala Glu Trp Ser Met Ser Phe Ser Phe Phe Gly Phe Phe Leu
 210 215 220

Thr Tyr Ile Arg Asp Phe Gln Lys Ile Ser Leu Arg Val Glu Ala Asn
 225 230 235 240

Leu His Gly Leu Thr Leu Tyr Asp Thr Ala Pro Cys Pro Ile Asn Asn
 245 250 255

Glu Arg Thr Arg Leu Leu Ser Arg Asp Ile
 260 265

<210> 1281
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1281
 Met Ile Leu Leu Leu Ser Leu Phe Gln Gly Val Arg Gly Ser Leu Gly
 1 5 10 15

Ser Pro Gly Asn Arg Glu Asn Lys Glu Lys Lys Val Phe Ile Ser Leu
 20 25 30

Val Gly Ser Arg Gly Leu Gly Cys Ser Ile Ser Ser Gly Pro Ile Gln
 35 40 45

Lys Pro Gly Ile Phe Ile Ser His Val Lys Pro Gly Ser Leu Ser Ala
 50 55 60

Glu Val Gly Leu Glu Ile Gly Asp Gln Ile Val Glu Val Asn Gly Val
 65 70 75 80

Asp Phe Ser Asn Leu Asp His Lys Glu Leu Gln Leu Ala Gly Ser Cys
 85 90 95

Ser

<210> 1282
 <211> 334
 <212> PRT
 <213> Homo sapiens

<400> 1282
 Met Gly Ile Phe Pro Gly Ile Ile Leu Ile Phe Leu Arg Val Lys Phe
 1 5 10 15

Ala Thr Ala Ala Val Ile Val Ser Gly Val Ser Lys His Leu His Cys
 20 25 30

Ile Ser His Gln Lys Ser Thr Thr Val Ser His Glu Met Ser Gly Leu
 35 40 45

Asn Trp Lys Pro Phe Val Tyr Gly Gly Leu Ala Ser Ile Val Ala Glu
 50 55 60

Phe Gly Thr Phe Pro Val Asp Leu Thr Lys Thr Arg Leu Gln Val Gln
 65 70 75 80
 Gly Gln Ser Ile Asp Ala Arg Phe Lys Glu Ile Lys Tyr Arg Gly Met
 85 90 95
 Phe His Ala Leu Phe Arg Ile Cys Lys Glu Glu Gly Val Leu Ala Leu
 100 105 110
 Tyr Ser Gly Ile Ala Pro Ala Leu Leu Arg Gln Ala Ser Tyr Gly Thr
 115 120 125
 Ile Lys Ile Gly Ile Tyr Gln Ser Leu Lys Arg Leu Phe Val Glu Arg
 130 135 140
 Leu Glu Asp Glu Thr Leu Leu Ile Asn Met Ile Cys Gly Val Val Ser
 145 150 155 160
 Gly Val Ile Ser Ser Thr Ile Ala Asn Pro Thr Asp Val Leu Lys Ile
 165 170 175
 Arg Met Gln Ala Gln Gly Ser Leu Phe Gln Gly Ser Met Ile Gly Ser
 180 185 190
 Phe Ile Asp Ile Tyr Gln Gln Glu Gly Thr Arg Gly Leu Trp Arg Gly
 195 200 205
 Val Val Pro Thr Ala Gln Arg Ala Ala Ile Val Val Gly Val Glu Leu
 210 215 220
 Pro Val Tyr Asp Ile Thr Lys Lys His Leu Ile Leu Ser Gly Met Met
 225 230 235 240
 Gly Asp Thr Ile Leu Thr His Phe Val Ser Ser Phe Thr Cys Gly Leu
 245 250 255
 Ala Gly Ala Leu Ala Ser Asn Pro Val Asp Val Val Arg Thr Arg Met
 260 265 270
 Met Asn Gln Arg Ala Ile Val Gly His Val Asp Leu Tyr Lys Gly Thr
 275 280 285
 Val Asp Gly Ile Leu Lys Met Trp Lys His Glu Gly Phe Phe Ala Leu
 290 295 300
 Tyr Lys Gly Phe Trp Pro Asn Trp Leu Arg Leu Gly Pro Trp Asn Ile
 305 310 315 320
 Ile Phe Phe Ile Thr Tyr Glu Gln Leu Lys Arg Leu Gln Ile
 325 330

<210> 1283

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1283

Met Asn Val Phe Val Gly Pro Leu Ser Val Ala Ile Val Ile Phe Cys
 1 5 10 15

Trp Ile Thr Met Tyr Trp Val Ser Ile Val Met Gly Gln Gly Arg Gly
 20 25 30
 Gln Tyr Thr Trp Arg Thr Ile Leu Ser Thr Ser Thr Pro Ser Val Cys
 35 40 45
 Ser

<210> 1284
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1284
 Met Val Cys Cys Gly Phe Phe Leu Leu Trp Ser Arg Val Arg Ser Tyr
 1 5 10 15
 Met Lys Leu Ser Gly His Arg Trp Ser Ser Ser Cys Pro His His Cys
 20 25 30
 Tyr Ser Lys Cys Gly Leu His Thr Ser Asn Gly Lys Ser Ser Val His
 35 40 45
 Thr Val
 50

<210> 1285
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1285
 Met Pro Gly Pro Cys Leu Ser Gln Gln His Pro Phe Leu Ser Leu Ser
 1 5 10 15
 Leu Phe Pro Phe Cys Leu Trp Ile Cys Leu Ala Arg Val Pro Gly Val
 20 25 30
 Arg Asn Ile Cys Lys Thr Gln Pro Ala Pro Ser Gln Pro Ser Leu Leu
 35 40 45
 Gly Leu Gly Leu Ser His Pro Ala Ala Gly Thr Thr Asp Ala Gly Thr
 50 55 60
 Gln Ser Leu Pro Arg Ser Gln His Lys Cys Thr Ser Ala Leu Trp Gly
 65 70 75 80
 Leu Cys Pro Ala Gln Arg Pro Leu Leu Leu Pro Ala His Ile His Ser
 85 90 95
 Ser Gly His Gly Ala Pro Gln Glu Leu Gln Ser His Leu Ser His Arg
 100 105 110
 Leu Pro Ala Ser Ala Ser Leu Ser Met Met Ser Pro Phe Ser Glu Ala
 115 120 125

Trp Thr His Pro Ser Leu Ser Leu Gly Pro Ala Pro Ser His
 130 135 140

<210> 1286
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1286
 Met Tyr Thr Lys Leu Met Leu Asn Lys Val Leu Leu Phe Trp Gln Ile
 1 5 10 15
 Val Lys Cys Lys Val Leu Val Asp Gln Tyr Cys Tyr Asn Phe Gly Ala
 20 25 30
 Lys Leu Leu His Ala Asp Trp Leu Trp Asp Leu Val His Phe Leu Arg
 35 40 45
 Thr Asn Val Glu Phe Glu Lys Thr Pro
 50 55

<210> 1287
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 1287
 Met Ser Ser Phe Thr Leu Gly Leu Leu Phe Leu Phe Ile Phe Thr Thr
 1 5 10 15
 Ala Glu Asn Tyr Leu Ile Leu Phe Gln Arg Lys Tyr Cys Leu Val Ile
 20 25 30
 Phe Trp Gly Glu Phe
 35

<210> 1288
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1288
 Met Gln Leu Cys Val Ile Trp Phe Thr Val Ile Phe Leu Ser Gln Ser
 1 5 10 15
 Ser Arg Leu Val Lys Glu Lys Ile Ser Asn Thr Ser Gly Glu Lys Gly
 20 25 30
 Arg Trp Pro Ala Ile Asp Val Val Ala Leu Cys Pro Ser Arg Thr Ala
 35 40 45
 Gly Ile Ser Phe Pro Arg His Phe Leu Tyr Val Ser Cys Ile Val Gly
 50 55 60

Cys Thr Asn Ile Ile Cys Ser Phe Gly Phe Pro Gly Gln
 65 70 75

<210> 1289
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1289
 Met Ala Ala Gly Pro Ser Gly Cys Leu Val Pro Ala Phe Gly Leu Arg
 1 5 10 15
 Leu Leu Leu Ala Thr Val Leu Gln Ala Val Ser Ala Phe Gly Ala Glu
 20 25 30
 Phe Ser Ser Glu Ala Cys Arg Glu Leu Gly Phe Ser Ser Asn Leu Leu
 35 40 45
 Cys Ser Ser Cys Asp Leu Leu Gly Gln Phe Asn Leu Leu Gln Leu Asp
 50 55 60
 Pro Asp Cys Arg Gly Cys Cys Gln Glu Glu Ala Gln Phe Glu Thr Lys
 65 70 75 80
 Lys Leu Tyr Ala Gly Ala Ile Leu Glu Val Cys Gly
 85 90

<210> 1290
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any amino acid

<400> 1290
 Met Ser Asp Lys Leu Ser Pro Ser Thr Val Pro Leu Leu Leu Pro Val
 1 5 10 15
 Leu Phe Lys Val Thr Ile Leu Leu Gln Arg Val Cys Pro Glu Asp Ser
 20 25 30
 Pro Ser Ser Ser Val Leu Pro Glu Ser Val Xaa Arg Glu
 35 40 45

<210> 1291
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 1291
 Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
 1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
 20 25 30
 Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
 35 40 45
 Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
 50 55 60
 Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys
 65 70 75 80
 Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
 85 90 95
 Leu Ile Ala Ser Thr Ala Val
 100

<210> 1292
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1292
 Met Met Leu Gln Ile Ile His Leu Asn Thr Leu Ile Lys Phe Phe Gln
 1 5 10 15
 Cys Leu Lys Leu Phe Leu His Gly Thr Ala Gly Ser Gly Gln Lys Cys
 20 25 30
 Leu Ala Tyr Lys Phe Ser Gln Phe Pro Ser Ile Ile Pro Ala Ala His
 35 40 45
 Lys Lys Val His His Leu Leu Ser Pro Lys Cys Leu Pro Thr Glu Cys
 50 55 60
 Ser Gln Ala Asp Asn Ser Ser Trp Asp Ser Ala Val Trp
 65 70 75

<210> 1293
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1293
 Met Ala Pro Arg Asn Gln Gly Ser Phe Ser Phe Gly Asn Phe Met Leu
 1 5 10 15
 Phe Leu Val Leu Ile Glu Arg Arg Tyr Leu Pro Phe Leu Ser Pro Ile
 20 25 30
 Leu Phe Cys Cys Ser Thr His Asn Arg Ser Ala Val Thr Ala Thr Asn
 35 40 45
 Leu

<210> 1294
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1294
 Met His Ala Tyr Ala Cys Val Cys Ala Cys Met Leu Val Cys Val Cys
 1 5 10 15
 Val Cys Val Cys Arg Ala Leu Val Ile Pro Thr Glu Gln Arg His Arg
 20 25 30
 Arg Val Ala His Gly Arg Thr Ser Asp Ser Thr Leu Pro Cys Thr Val
 35 40 45
 Lys Ile Trp Pro Ser Glu Arg Gly Asp Gly Arg Gly Glu Arg Gly Glu
 50 55 60
 Arg Arg Arg Gly Thr Asp Trp Arg Gly
 65 70

<210> 1295
 <211> 957
 <212> PRT
 <213> Homo sapiens

<400> 1295
 Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala Ser Pro
 1 5 10 15
 Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg Trp Lys Leu
 20 25 30
 Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg Leu Lys Leu Val Pro Asn
 35 40 45
 His His Phe Asp Pro His Leu Glu Ala Ser Ala Leu Arg Asp Asn Leu
 50 55 60
 Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala
 65 70 75 80
 Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Leu Gln Glu
 85 90 95
 Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro Met Glu
 100 105 110
 Ala Ala Glu Leu Asp Glu Gln Arg Glu Lys Leu Val Leu Ser Ala Glu
 115 120 125
 Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val
 130 135 140
 Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu
 145 150 155 160

Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu
 165 170 175
 Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu
 180 185 190
 Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys
 195 200 205
 Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln
 210 215 220
 Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser
 225 230 235 240
 Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg
 245 250 255
 Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val
 260 265 270
 Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile
 275 280 285
 Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp
 290 295 300
 Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala
 305 310 315 320
 Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His
 325 330 335
 Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly
 340 345 350
 Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly
 355 360 365
 Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val
 370 375 380
 Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser
 385 390 395 400
 Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys
 405 410 415
 Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln
 420 425 430
 Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly
 435 440 445
 Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln
 450 455 460
 Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His
 465 470 475 480

Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala
 485 490 495
 Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val
 500 505 510
 Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly
 515 520 525
 Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro
 530 535 540
 His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg
 545 550 555 560
 Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys
 565 570 575
 Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala
 580 585 590
 Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro
 595 600 605
 Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser
 610 615 620
 Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys
 625 630 635 640
 Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro
 645 650 655
 Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro
 660 665 670
 Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg
 675 680 685
 Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His
 690 695 700
 Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu
 705 710 715 720
 Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His
 725 730 735
 Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu
 740 745 750
 Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu
 755 760 765
 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr
 770 775 780
 Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr
 785 790 795 800
 Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile


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<210> 1296
<211> 221
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any amino acid
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762

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<400> 1297
Met Cys His Phe Ser Ala Leu Ser Phe Thr Phe Cys Val Leu Pro Leu
  1           5           10           15
Ala Phe Ser Phe Leu Gln Lys His Cys Tyr Phe Thr His Lys Phe Gly
  20           25           30
Gln Asn Val Gln Tyr Ser His Phe Arg Val Ser Phe Gln Trp Lys Lys
  35           40           45

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<400> 1298
Met Met Asp Phe Leu Arg Cys Val Thr Ala Ala Leu Ile Tyr Phe Ala
1 5 10 15
Ile Ser Ile Thr Ala Ile Ala Lys Tyr Ser Asp Gly Ala Ser Lys Ala
20 25 30

Ala Gly Gly Ser Val Pro Asp Thr Arg Ala Val Cys Pro Ser Arg Ser
 35 40 45

Glu Met Gly Arg Glu Leu Gly Ala Ala Ala Ser Arg Glu Gln Gly Val
 50 55 60

Ser Pro Val Met His Pro Ile His Pro Val His Arg Cys Leu Ala Ser
 65 70 75 80

Leu Leu Pro Ser Cys Leu Gln Leu Xaa Ser Thr
 85 90

<210> 1299
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1299
 Met Arg Lys Val Thr Ile Ser Lys Lys His Ala Leu Leu Leu Cys Phe
 1 5 10 15

Gln Leu Phe Arg Cys Leu Leu Ser Met Tyr Ile Trp Ile Thr Phe Val
 20 25 30

Leu Asp Gly Ser Cys Glu Ser Thr Val Leu Ser Asn Arg Ser Leu Ser
 35 40 45

Leu Val Pro Ile Ile Val Tyr Ile Ala Gln Leu Pro Glu Phe Asp Ser
 50 55 60

Ser Val Gln Arg
 65

<210> 1300
 <211> 490
 <212> PRT
 <213> Homo sapiens

<400> 1300
 Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro
 1 5 10 15

Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser
 20 25 30

Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln
 35 40 45

Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val
 50 55 60

Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Leu Arg Ala Gly
 65 70 75 80

Pro Gly Pro Gly Gly Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu
 85 90 95

Glu Arg Arg Arg Ser His Cys Thr Leu Glu Asn Glu Pro Leu Arg Gly
 100 105 110
 Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu
 115 120 125
 Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Cys Ala
 130 135 140
 Val Leu Gln Ala Thr Gly Gly Val Glu Pro Ala Gly Trp Lys Glu Met
 145 150 155 160
 Arg Cys His Leu Arg Ala Asn Gly Tyr Leu Cys Lys Tyr Gln Phe Glu
 165 170 175
 Val Leu Cys Pro Ala Pro Arg Pro Gly Ala Ala Ser Asn Leu Ser Tyr
 180 185 190
 Arg Ala Pro Phe Gln Leu His Ser Ala Ala Leu Asp Phe Ser Pro Pro
 195 200 205
 Gly Thr Glu Val Ser Ala Leu Cys Arg Gly Gln Leu Pro Ile Ser Val
 210 215 220
 Thr Cys Ile Ala Asp Glu Ile Gly Ala Arg Trp Asp Lys Leu Ser Gly
 225 230 235 240
 Asp Val Leu Cys Pro Cys Pro Gly Arg Tyr Leu Arg Ala Gly Lys Cys
 245 250 255
 Ala Glu Leu Pro Asn Cys Leu Asp Asp Leu Gly Gly Phe Ala Cys Glu
 260 265 270
 Cys Ala Thr Gly Phe Glu Leu Gly Lys Asp Gly Arg Ser Cys Val Thr
 275 280 285
 Ser Gly Glu Gly Gln Pro Thr Leu Gly Gly Thr Gly Val Pro Thr Arg
 290 295 300
 Arg Pro Pro Ala Thr Ala Thr Ser Pro Val Pro Gln Arg Thr Trp Pro
 305 310 315 320
 Ile Arg Val Asp Glu Lys Leu Gly Glu Thr Pro Leu Val Pro Glu Gln
 325 330 335
 Asp Asn Ser Val Thr Ser Ile Pro Glu Ile Pro Arg Trp Gly Ser Gln
 340 345 350
 Ser Thr Met Ser Thr Leu Gln Met Ser Leu Gln Ala Glu Ser Lys Ala
 355 360 365
 Thr Ile Thr Pro Ser Gly Ser Val Ile Ser Lys Phe Asn Ser Thr Thr
 370 375 380
 Ser Ser Ala Thr Pro Gln Ala Phe Asp Ser Ser Ser Ala Val Val Phe
 385 390 395 400
 Ile Phe Val Ser Thr Ala Val Val Val Leu Val Ile Leu Thr Met Thr
 405 410 415

Val Leu Gly Leu Val Lys Leu Cys Phe His Glu Ser Pro Ser Ser Gln
420 425 430

Pro Arg Lys Glu Ser Met Gly Pro Pro Gly Leu Glu Ser Asp Pro Glu
435 440 445

Pro Ala Ala Leu Gly Ser Ser Ser Ala His Cys Thr Asn Asn Gly Val
450 455 460

Lys Val Gly Asp Cys Asp Leu Arg Asp Arg Ala Glu Gly Ala Leu Leu
465 470 475 480

Ala Glu Ser Pro Leu Gly Ser Ser Asp Ala
485 490

<210> 1301
<211> 105
<212> PRT
<213> Homo sapiens

<400> 1301
Met Thr His Arg Arg His Cys Gly Leu Ala Arg Trp Ile Leu Met Lys
1 5 10 15

Ile Phe Cys Trp Arg Val Ser Thr Val Thr Ser Thr Ala Gly Ala Leu
20 25 30

Thr Asn Pro His Ser Cys Tyr Thr Ser Val Leu Lys Val Gly Ala Thr
35 40 45

Gly Val Gly Gln Ser Leu Ser Val Trp Thr Met Pro Gly Leu Leu Leu
50 55 60

Glu Gln Phe Ser Thr Gly Val Glu Leu Leu Leu Ser Ser Ser Arg Phe
65 70 75 80

Ser Asn Ser Met Glu Tyr Lys Asn Arg Leu Ser Ser Val Glu Asp Arg
85 90 95

Ser Ser Val Val Thr Cys Leu Lys Ala
100 105

<210> 1302
<211> 57
<212> PRT
<213> Homo sapiens

<400> 1302
Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu
1 5 10 15

Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro
20 25 30

Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Thr His
35 40 45

Ser Ser Arg Ser Ile Leu Ser Phe Ile
 50 55

<210> 1303
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1303
 Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala
 1 5 10 15
 Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp
 20 25 30
 Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu
 35 40 45
 Gly Val Leu Leu Leu Leu Ala Ala Gly Arg Pro Gly Gly Ala Ala Val
 50 55 60
 Leu Leu Ser Leu
 65

<210> 1304
 <211> 79
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any amino acid

<400> 1304
 Met Arg Val Phe Ala Leu Leu Pro Pro Phe His Lys Ser Thr Val Leu
 1 5 10 15
 Ser Phe Leu Leu Phe Phe Leu Ser Phe Phe Phe Phe Arg Gln Gly Leu
 20 25 30
 Ala Val Ser Xaa Arg Leu Glu Cys Ser Gly Ala Ile Ile Ala His Cys
 35 40 45
 Ser Leu Asp Leu Leu Asp Ser Ser Asn Pro Pro Ala Leu Thr Ser Gln
 50 55 60
 Leu Leu Arg Arg Pro Arg Gln Glu Asp His Leu Ser Pro Gly Gly
 65 70 75

<210> 1305
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1305

Met Phe Val Glu Arg Trp Leu Pro Cys Phe Leu Val Val Ala Val Val
 1 5 10 15
 Val Trp Val Phe Ala Cys Gly Pro Val Glu Asp Lys Glu Asp Ser Phe
 20 25 30
 Gly Trp Ser Ser Tyr Phe Leu Ala Ser Gly Leu Pro Pro Leu Leu Phe
 35 40 45
 Glu Ala Ser Gln Thr Arg Thr Val Arg Ala Gly Arg Leu Gly Val Phe
 50 55 60
 Val Cys
 65

<210> 1306

<211> 67

<212> PRT

<213> Homo sapiens

<400> 1306

Met Pro Leu Glu Gly Phe Cys Leu Val Leu Asp Ile Gly Phe Leu Leu
 1 5 10 15
 Val Met Leu Ile Ser Leu Ala Ser Glu Cys Phe Thr Thr Cys Leu Asp
 20 25 30
 Ser Phe Ser Thr Thr Glu Pro Gly Cys Lys Phe Tyr Lys Leu Leu His
 35 40 45
 Ser Val Ser Leu Leu Asn Ile Asn Phe Asn Val Lys Ser Leu Leu Cys
 50 55 60
 Ser His Ile
 65

<210> 1307

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1307

Met Ser Val Tyr Val Asn Ile Met His Ile Val Ile Tyr Ile Tyr Leu
 1 5 10 15
 Cys Val Tyr Met Cys Val Ala Gln Ser His Thr His Thr Gln Ile Cys
 20 25 30
 Ile Gln Met Leu Pro Gly Leu Gln
 35 40

<210> 1308

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any amino acid

<400> 1308

Met Cys Leu Leu Ala His Leu Phe Cys His His Leu Leu Ile Leu Leu
1 5 10 15

Pro Val Ile Glu Xaa Leu Leu Cys Thr Arg His Trp Ala Arg Gly Ile
20 25 30

Leu

<210> 1309

<211> 249

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (150)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (196)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (222)

<223> Xaa equals any amino acid

<400> 1309

Met Val Cys Val Phe Met Cys Ile Val Gly Val Cys Val Ala Cys Cys
1 5 10 15

Ala Cys Val Tyr Cys Gly Cys Leu Leu Ser Arg Ala Val Glu Arg Thr
20 25 30

Ser Gly Lys Gln Pro Gln His Gln Gly Gln Ala Arg Ser Ala Glu Cys
35 40 45

Met Glu Ala Gly Gln Val Gly Ala Trp Asp Glu Gly Ser Thr Glu Met
50 55 60

Gln Gly Cys Gln Gly Pro Trp Asn Gln Glu Pro Met Ile Lys Ala Thr
65 70 75 80

Val His Thr Ala Leu Glu Ala Lys Asp Ile Phe Ile Ser Gln Gly Leu

85 90 95
 Lys Ser Met Gly Gln Gly Trp Ala Pro Gly Gln Asp Trp Gly Tyr Arg
 100 105 110
 Val Asp Gln Ser Pro Ser Leu Pro Pro Gly Ala Tyr Pro His Pro Phe
 115 120 125
 Thr Ser Gln Val Ser Pro Pro Gln Pro Leu Gly Glu Leu Leu Leu Ile
 130 135 140
 Pro Gln Xaa Val Ala Xaa Val Thr Leu Leu Pro Glu Ala Ser Pro His
 145 150 155 160
 Pro Leu Lys His Pro Leu Pro Ala Ala His Leu Gln His Ser Gln Arg
 165 170 175
 Ala Pro Trp Pro Val Ser Thr Gly Leu Ser Leu Leu Gly Gly Ala Gly
 180 185 190
 Ala Glu Gln Xaa Pro Gly Leu Gly Val Pro Ala Pro Arg Ser Thr Pro
 195 200 205
 Ser Pro Thr Ala Ser Leu Phe Asn Leu Arg Gln Ala Val Xaa Leu Leu
 210 215 220
 Ser Leu Thr Phe Pro Leu Cys Lys Met Arg Glu Gly Thr Ala Pro Ser
 225 230 235 240
 Lys Pro Ser Phe Ser Leu Lys Pro Leu
 245

<210> 1310
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1310
 Met Pro Leu Gln Leu Ser Gly Gln Tyr Trp Ile Ser Leu Leu Val Phe
 1 5 10 15
 Leu Ser Leu Gln Pro Phe Pro Gln Ala Ala Ile Pro Cys Ala Leu Thr
 20 25 30
 Asp Val Gly Gly Ser Cys Val Ile Cys His Ile Leu Leu Asn Cys Leu
 35 40 45
 Cys Ile Leu Phe Thr Leu Thr Ala Pro Ser Leu Ser His Val Leu Leu
 50 55 60
 Ile Lys Met Ser Leu Ser Val Cys Tyr Glu Pro Gly Ala Asp Leu Ser
 65 70 75 80
 Asp Arg Ala Ala Thr Gly Asn Lys Lys Leu Thr Arg Ser Thr Cys Leu
 85 90 95
 Leu Met His Ser Asn Lys Leu Cys
 100

<210> 1311
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 1311
 Met Gln Gly Ser Asp Ala Gly His Gly Gly Thr His Ile Tyr Arg Ala
 1 5 10 15
 Leu Val Gln Trp Pro Leu Ala Trp Val Phe Tyr Leu Ser His Ala Lys
 20 25 30
 Thr His Trp Gly Glu Glu Leu Arg Phe Ser Phe Arg Arg Lys Asn Leu
 35 40 45
 Arg Leu Arg Glu Ala Met Arg His Glu Thr Cys Gln Val Thr Gln Leu
 50 55 60
 Val Ala Gly Lys Ala Asp Ser Asn Leu Cys Leu Arg Asp Ser Glu Thr
 65 70 75 80
 Trp Phe Trp Pro Pro Leu Trp Ala Ala Cys Ser Ser Leu Gln Ala Thr
 85 90 95
 Ala Cys Arg Leu Ser Ser Pro Ser Lys Gly Leu Gly Ala Ser Arg Glu
 100 105 110
 Cys Pro Trp Leu Ala Ser Gly Arg Ala Ala Leu Val Ser Phe Leu
 115 120 125

<210> 1312
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1312
 Met Gly Ser Trp Cys Ile Cys Thr Leu Leu Leu Leu Thr Asp Gly
 1 5 10 15
 Gln Gln Gly Phe Tyr Pro Gln Pro Phe Gln Ala Ala Pro Gly Arg Gln
 20 25 30
 Gln Leu Trp Gly Gly Thr Asn Pro Trp Ala Val Leu Ile Pro Glu Ser
 35 40 45
 Phe Leu Pro Tyr Thr Leu Thr Val Asn Tyr Ser Pro Ser Cys Asn Phe
 50 55 60
 Glu Phe Tyr Leu Pro Lys Met Arg Leu Ala Tyr Ile Cys Met Ser His
 65 70 75 80
 Ser His Cys Pro Tyr Leu Gly Arg Asp Ile Ile Ile Thr Leu Leu Asn
 85 90 95
 Tyr Cys Ser Ser Phe Leu Ala Glu Leu Leu Ala His Leu Val Tyr Ile
 100 105 110

Ala

<210> 1313
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1313
 Met Trp Phe Arg Cys Phe Leu Leu Ile Phe Val Ser Ser Val Thr Leu
 1 5 10 15
 Thr Gly Asp Phe Arg Asn Met Lys Lys Pro Ser Ser Leu Cys Leu Phe
 20 25 30
 Arg Gln Gly Leu Met Ser Ala Ser Glu Val Ser Gly Ser Gly Ser Gly
 35 40 45
 Glu Gly Asp
 50

<210> 1314
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1314
 Met Thr Lys Arg Arg Lys Pro Arg Tyr Arg Phe Ile Phe Ala Leu Tyr
 1 5 10 15
 Ala Leu Arg Leu Val Phe Leu Phe Arg Ala Val Thr Asn Thr Asp Ala
 20 25 30
 Ser Arg Leu Arg Ala Lys Arg Gly Glu Cys Pro Tyr
 35 40

<210> 1315
 <211> 82
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any amino acid

<400> 1315
 Met Leu Ile Ala Leu Phe Cys Ile Leu Phe Gln Ile Leu Phe Ser Ile
 1 5 10 15
 Pro Thr Arg Ile Phe Tyr Ile Phe Leu Ile Asn Lys Arg Val His Ile
 20 25 30
 Phe Thr Thr Tyr Leu Met Ser Glu Gln Lys Asn His Asp Trp Val Arg
 35 40 45

Arg Thr Xaa Lys Leu His Arg Val Trp Leu Ile Ser Gly Lys Met Leu
 50 55 60
 Leu Val Ala Asp Ile Lys Ala Leu Ile Arg Trp Leu Trp Gly Pro Asn
 65 70 75 80
 Pro Glu

<210> 1316
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1316
 Met Val Cys Val Arg Cys Val Trp Tyr Val Trp His Val Phe Gly Val
 1 5 10 15
 Tyr Gly Asn Ile Leu Trp Ile Arg Thr Cys Gly Leu Phe Lys Asp Leu
 20 25 30
 Ser Phe Cys Ala Leu Lys Ser Glu Met
 35 40

<210> 1317
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1317
 Met Ser Pro Phe Asn Cys Cys Pro Phe Asn Tyr Thr Leu Ile Tyr Ile
 1 5 10 15
 Ile Leu Leu Met Leu Ile Tyr Val Tyr Ile Ser Ser Val His Ser Leu
 20 25 30
 Val Asp Ser Asp Leu Leu Asn Gly
 35 40

<210> 1318
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 1318
 Met Gly Cys Thr Ala Leu Leu Leu Leu Phe His Leu Cys Val Pro Cys
 1 5 10 15
 Glu Pro Tyr Gly Thr His Glu Lys Glu Leu Val Pro Gly Leu Tyr Phe
 20 25 30
 Leu Val Tyr Arg
 35

<210> 1319
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any amino acid

<400> 1319
 Met Val Ser Phe Val Gly Ile Cys Leu Leu Leu Gly Ser Phe Phe Ser
 1 5 10 15
 Pro Ser Leu Gln Gly Thr Ile Trp His His Pro Ala Lys Pro Asp Gly
 20 25 30
 Ser Gly His Gly Leu Pro Ser Phe Ala Val Ile Met Gly Lys Gln Val
 35 40 45
 Val Pro Thr Val Tyr Trp Arg Met Pro Tyr Pro Arg Arg Gly Gly Pro
 50 55 60
 Gly Thr Xaa Phe Ala Leu
 65 70

<210> 1320
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1320
 Met Cys Ile Pro Glu Ala Leu Gly Lys Asn Ser Leu Phe Leu Ser Ser
 1 5 10 15
 Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser
 20 25 30
 Tyr Leu Glu Gly Gln His Leu Gln Ile Cys Phe Phe Phe Thr
 35 40 45

<210> 1321
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1321
 Met Ile Phe Lys Leu Leu Ile Phe Arg Ile Phe Phe His Glu Leu Ala
 1 5 10 15
 Leu Ala Leu Cys Ile Ser Asn Leu Val Ser Leu Pro Trp Leu Ser Tyr
 20 25 30
 Phe Trp Cys Pro Glu Met Gln Asn Leu Phe Leu Leu Asp Thr His Ile
 35 40 45

Trp Val Leu Met
50

<210> 1322
<211> 74
<212> PRT
<213> Homo sapiens

<400> 1322
Met Thr Leu Leu Leu Phe Ile Phe Phe Val Asp Cys Phe Ser Thr Pro
1 5 10 15
Gly Ser Ser Val Phe Asp Thr Gln Glu Val Trp Val Val Val Tyr Ser
20 25 30
Val Asn Lys Leu Leu Ala Val Gln His Cys Gln Gly Ile Ala Pro Asn
35 40 45
Val Tyr Ala Leu Ala Val Lys Lys Ser Val Cys Asn Val Ser Glu Trp
50 55 60
Ser Leu Val Ile Cys His Pro Met Pro Ile
65 70

<210> 1323
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any amino acid

<400> 1323
Met Ser Val Phe Leu Leu Ile Thr Leu Ala Leu Ala Ile Leu Tyr Ile
1 5 10 15
Ile Arg Ser Ile Val Phe Ser Leu Ala Leu Xaa Gln Asn Gly Ser Leu
20 25 30
Gln Gly

<210> 1324
<211> 53
<212> PRT
<213> Homo sapiens

<400> 1324
Met Gln Pro Trp Ala Gly Leu Cys Pro Leu Leu Val Leu Trp Ile Ser
1 5 10 15
Gly His Leu His Cys Ile Ser Ala Leu Leu Gln Glu Arg Gly Val Gly

20 25 30
 Val Ser Leu Ser Ser Arg Ser Asp Ala Cys Lys Ala Ala His Arg Ile
 35 40 45
 Gly Thr Ser Ser Ser
 50

<210> 1325
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1325
 Met Pro Arg Trp Leu Ser Leu Leu Ala Leu Thr Ser Leu Thr Gly Ile
 1 5 10 15
 Leu Ser Gly Thr Leu Gly Phe Ser Pro His Gly Trp Ser Ser Pro Arg
 20 25 30
 Arg His Leu Ser Pro Arg Pro Glu Cys Pro Ala Ala Ser Gln Thr Thr
 35 40 45
 Cys Lys Ser Leu Gly Gln His
 50 55

<210> 1326
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1326
 Met Thr Pro Ser Leu Leu Ser Glu Lys Leu Cys Ser Leu Phe Phe Val
 1 5 10 15
 Leu Leu Gly Ile Ala Ser Ala Ala Phe Val Ser Ala Leu Trp Ala Trp
 20 25 30
 Ser Ser His Thr Glu Arg Leu Thr Ala Glu Pro Ser Ser Ser Ile Thr
 35 40 45
 Cys Leu Ser Pro Pro Trp Phe Phe Phe Pro Phe
 50 55

<210> 1327
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1327
 Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln
 1 5 10 15
 Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro
 20 25 30

Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met
 35 40 45

Arg Val Cys Ala Arg Val
 50

<210> 1328
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any amino acid

<400> 1328
 Met Pro His Ile Phe Val Ser Gly Asn Phe Ser Leu Leu Ala Leu Phe
 1 5 10 15

Leu Leu Ser Ala Asn Phe Ile Val Glu Val Gln Ser Trp Leu Leu Leu
 20 25 30

Leu Leu Phe Phe Ile Xaa Leu Gly Arg Ser Tyr Asn Phe Tyr Leu Leu
 35 40 45

Cys Asp Ser Ile Ile Phe
 50

<210> 1329
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 1329
 Met Gln Leu Val Leu Phe His Arg Leu Ile Met Pro Leu Phe Phe Ala
 1 5 10 15

Arg Thr Leu Val Asp
 20

<210> 1330
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1330
 Met Cys Leu Gly His Ala Phe Cys Leu Leu Leu Ser His Ser Cys Arg
 1 5 10 15

Met His Cys Thr Cys Tyr Leu Cys Leu Phe Thr Val Gln Val Leu Pro
 20 25 30

Gly Lys Tyr Asn Glu Gly Gly Glu Gly Gln Arg Asn

35

40

<210> 1331
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1331
 Met Phe Pro Gly Cys Ile Leu Leu Cys Asn Leu Cys Met Phe Phe Val
 1 5 10 15
 Leu Ser Phe Ser Met Gly Ile Phe Ala Phe Tyr Ser Leu Ile Arg Ala
 20 25 30
 Met His Val Ser Arg Leu Asp Phe Asn Phe Ala Thr Tyr Phe Val Ala
 35 40 45

<210> 1332
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1332
 Met Val Val Val Arg Trp Arg Gly Gln Gly Ser Phe Arg Val Cys Val
 1 5 10 15
 Cys Val Ser Val Arg Met Cys Val Arg Val Tyr Lys Glu Gln Leu Asn
 20 25 30
 Asn Leu Leu Leu Glu Trp Val Leu Leu Arg Ala Lys Tyr Cys
 35 40 45

<210> 1333
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any amino acid

<400> 1333
 Met Lys Ala Ile Ala Arg Ala Cys Leu Leu Leu Ser Leu Leu Val Leu
 1 5 10 15
 Pro His Val Val Ser Glu His Leu Phe Trp His His Asn Pro Arg His
 20 25 30
 Pro Val Ile Trp Pro Phe Pro Pro Phe His Leu Ile Ser Cys Ser Val
 35 40 45

Ser Ala Ser Thr Trp His Leu Gly Glu Xaa Leu Leu Leu Val Pro
 50 55 60

Ile Ala Pro Ser Val Trp Ser
 65 70

<210> 1334
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1334
 Met Arg His Val Ala Ile Val Thr Met Ile Val Val Leu Ser Pro Pro
 1 5 10 15
 Val Leu Ala Ser Ser Leu Lys Pro Pro Leu Phe Ile Asp Thr Tyr Phe
 20 25 30
 Met Phe Gly Lys Arg Cys Ser Arg Trp Asp Thr Leu Pro Ala Pro Asn
 35 40 45
 Asn Ser Tyr
 50

<210> 1335
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 1335
 Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His
 1 5 10 15
 Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu Pro Thr
 20 25 30
 Gln Ala Cys Leu
 35

<210> 1336
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 1336
 Met Tyr Ser Cys Leu Leu Leu Pro Asp Leu Leu Tyr Leu Thr Leu Ser
 1 5 10 15
 Pro Leu Val Val Ala Met Leu Leu Thr Pro His Phe Asn Val Ala Asn
 20 25 30
 Pro Gln Asn Leu Leu Ala Gly Leu Trp Leu Glu Asn Glu His Ser Phe
 35 40 45
 Thr Leu Met Ala Pro Glu Arg Ala Arg Thr His His Cys Gln Pro Glu

50 55 60
 Glu Arg Lys Val Leu Phe Cys Leu Phe Pro Ile Val Pro Asn Ser Gln
 65 70 75 80
 Ala Gln Val Gln Pro Pro Gln Met Pro Pro Phe Cys Cys Ala Ala Ala
 85 90 95
 Lys Glu Lys Thr Gln Glu Glu Gln Leu Gln Glu Pro Leu Gly Ser Gln
 100 105 110
 Cys Pro Asp Thr Cys Pro Asn Ser Leu Cys Pro Ser His Thr Gln Leu
 115 120 125
 Thr Lys Ala Asn Thr Leu Ser Leu Phe Phe Phe Phe Ser Phe Phe Leu
 130 135 140
 Ser Arg Val Ser Leu Leu Ser Pro Arg Leu Glu Cys Asn Gly Arg Ile
 145 150 155 160
 Leu Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro Val
 165 170 175
 Ser Ala Ser Arg
 180

<210> 1337
 <211> 78
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any amino acid

<400> 1337
 Met Met Gly Asn Asp Leu Leu His Leu Val Phe Leu Gln Leu Ser Leu
 1 5 10 15
 Gly Val Ala Ser Gly Gly Trp Ile Leu Trp Pro Leu Arg Arg Leu Gly
 20 25 30
 Gly Ala His Thr Ser Lys Asp Xaa Asn Lys Asn Gly His Xaa Val His
 35 40 45
 Cys Leu Val Ile Thr Asn Glu Pro Leu Val Ser Xaa Lys Lys Ile Gly
 50 55 60

Leu Ser Ser Pro His Thr Cys Pro Ser Thr Leu Gln Gln Phe
 65 70 75

<210> 1338
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1338
 Met Tyr Tyr Leu Gly Lys Trp Asp Ile Trp Gln Pro Val Ser Leu Leu
 1 5 10 15
 Tyr Ile Ile Leu Phe Ala Ala Cys Pro Ser Leu Leu Ile Ser Ile Pro
 20 25 30
 Ala Lys Ala Ser Gly Glu Gly Trp Arg Cys Gly Asp Ile Gln Leu Thr
 35 40 45
 Val Val Thr Asp
 50

<210> 1339
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1339
 Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser
 1 5 10 15
 Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly
 20 25 30
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu
 35 40 45
 Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu
 50 55 60
 Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu
 65 70 75 80

<210> 1340
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1340
 Met Ala Val Ser Leu Leu Phe Trp Met Leu Leu Gly Ala Val Pro Ile
 1 5 10 15
 Ala Gln Gly His Pro Glu Ile Gln Leu Leu Glu Ser Glu Ser Cys Gly

20 25 30
 His Ser Ala Glu Gly Pro Trp Arg Gly Gly Leu Arg Cys Pro Leu Gln
 35 40 45
 Pro Gly Leu
 50

<210> 1341
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1341
 Met Arg Leu Leu Lys Asn Val Leu Thr Gln Met Leu Ile Ile Ser Phe
 1 5 10 15
 Ser Thr Cys Ser Cys Leu Phe Ser Leu Phe Cys Ala Val Ile Thr Glu
 20 25 30
 Cys Leu Lys Leu Gly Asn Leu Tyr
 35 40

<210> 1342
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1342
 Met Arg Arg Met Arg Met Lys Ser Leu Ser Pro Arg Arg Ser Trp Trp
 1 5 10 15
 Thr Leu Trp Leu Gly Gln Gly Val Leu Gly Ala Ala Leu Lys Ala Asn
 20 25 30
 Thr Leu Trp Ile Ala Met Arg Arg Arg Met Met Met Met Gly Gly Pro
 35 40 45
 Ala Asn Met Thr Ser Trp Pro Gln Arg Met
 50 55

<210> 1343
 <211> 402
 <212> PRT
 <213> Homo sapiens

<400> 1343
 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly
 1 5 10 15
 Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro
 20 25 30
 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu
 35 40 45

Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val
 50 55 60
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu
 65 70 75 80
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr
 85 90 95
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val
 100 105 110
 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser
 115 120 125
 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val
 130 135 140
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr
 145 150 155 160
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp
 165 170 175
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp
 180 185 190
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu
 195 200 205
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His
 210 215 220
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr
 225 230 235 240
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met
 245 250 255
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile
 260 265 270
 Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro
 275 280 285
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr
 290 295 300
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu
 305 310 315 320
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys
 325 330 335
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met
 340 345 350
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser
 355 360 365

Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp
 370 375 380

Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg
 385 390 395 400

Pro Leu

<210> 1344
 <211> 218
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (168)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (174)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (198)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any amino acid

<400> 1344
 Met Arg Ala Leu Leu Ala Leu Cys Leu Leu Leu Gly Trp Leu Arg Trp
 1 5 10 15

Gly Pro Ala Gly Ala Gln Gln Ser Gly Glu Tyr Cys His Gly Trp Val
 20 25 30

Asp Val Gln Gly Asn Tyr His Glu Gly Phe Gln Cys Pro Glu Asp Phe
 35 40 45

Asp Thr Leu Asp Ala Thr Ile Cys Cys Gly Ser Cys Ala Leu Arg Tyr
 50 55 60

Cys Cys Ala Ala Ala Asp Ala Arg Leu Glu Gln Gly Gly Cys Thr Asn
 65 70 75 80

Asp Arg Arg Glu Leu Glu His Pro Gly Ile Thr Ala Gln Pro Val Tyr
 85 90 95

Val Pro Phe Leu Ile Val Gly Ser Ile Phe Ile Ala Phe Ile Ile Leu
 100 105 110

Gly Ser Val Val Ala Ile Tyr Cys Cys Thr Cys Leu Arg Pro Lys Glu
 115 120 125

Pro Ser Gln Gln Pro Ile Arg Phe Ser Leu Arg Ser Tyr Gln Thr Glu
 130 135 140
 Thr Leu Pro Met Ile Leu Thr Ser Thr Ser Pro Arg Ala Pro Ser Arg
 145 150 155 160
 Gln Ser Ser Thr Ala Thr Ser Xaa Ser Phe Thr Gly Gly Xaa Ile Arg
 165 170 175
 Arg Phe Phe Ser Ala Ile Trp Phe Pro Gly Val Thr Pro Val Phe Arg
 180 185 190
 Leu Pro Pro Ser Ala Xaa Ala Pro Thr Gly Trp Glu Glu Leu Ser Arg
 195 200 205
 Leu Ser Val Pro Xaa Asp Thr Pro Arg Pro
 210 215

<210> 1345
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1345
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
 1 5 10 15
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
 20 25 30
 Ala Ser Pro Pro Thr Thr Phe Met Asp Ile Gln Cys Cys Phe Ala Leu
 35 40 45
 Gln Leu Glu Arg Arg Asp Gly Gln Leu Val Thr Leu Ser His Ile Ala
 50 55 60
 Thr Phe Ile Cys Ser Gly Lys Lys Leu Asp Arg Trp
 65 70 75

<210> 1346
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1346
 Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala
 1 5 10 15
 Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala
 20 25 30
 Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe
 35 40 45
 Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala
 50 55 60

Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro
 65 70 75 80

Arg Trp Ser Leu Gln Leu Leu Pro Arg
 85

<210> 1347
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1347
 Met Leu Phe Cys Ile Leu Leu Tyr Thr Leu Gly Ser Ala Arg Cys His
 1 5 10 15
 His Leu Ser Phe Phe Leu Trp Gly Trp Ser Asn Pro Pro Glu Lys Thr
 20 25 30
 Pro Leu Ala Ser Trp Arg Gly Val Lys Ala Arg Leu Pro Gly Pro Gly
 35 40 45
 Cys Gln Leu Leu Gly Ala Ala Gly Ala Glu Ala Gly Ser Cys Gln Ala
 50 55 60
 Phe Ser Gln Gln Asp Ala Leu Ser Thr His Leu Gly Phe Arg Ile Pro
 65 70 75 80
 Leu Pro His Leu Gln Met Gly Gln Met Ser Pro Lys Pro Ala Ala Pro
 85 90 95
 Phe Cys Phe Thr Leu Ser Thr Glu
 100

<210> 1348
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1348
 Met Glu Thr Gln Ile Cys Leu Thr Gln Ile Val Ala Leu Phe Phe Leu
 1 5 10 15
 Arg Leu Val Leu Gly Lys Leu Thr Cys Phe Leu Tyr Gly Lys Leu Val
 20 25 30
 Leu Val Glu Ala Phe Ile Leu Ala
 35 40

<210> 1349
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1349
 Met Met Thr Phe Phe Gly Ser His Ile Leu Leu Phe Leu Phe Cys Pro

1 5 10 15
 Leu Lys Ala Gly His Arg His Leu Val Ser Ser Ser Phe Leu Thr Val
 20 25 30
 Ala Val Ser Ile Ser Lys Gly Pro Phe Phe His Ser Thr Ala Gln Lys
 35 40 45
 Arg Lys Ser Arg Lys Gln Leu Pro Arg Pro Ala Phe Leu Val Pro Leu
 50 55 60
 Ser Ser Gln Asn Thr Gln Thr Arg Thr Lys His His Phe Ser Phe Leu
 65 70 75 80
 His Leu Ile Val Leu Gln Pro
 85

<210> 1350
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1350
 Met Ala Val Pro Leu Phe Leu Tyr Ile Phe Thr Leu Leu Pro Leu Leu
 1 5 10 15
 Pro Phe Leu Leu Ser Leu Cys Phe Ser Pro Leu Thr Val Lys Arg Ser
 20 25 30
 Ser Ser Ser Glu Ser Lys Ser Ser Leu
 35 40

<210> 1351
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1351
 Met Phe Ile Val Ala Leu Leu Ile Leu His Trp Ala Leu Gly Gly Thr
 1 5 10 15
 Val Met Ser Lys
 20

<210> 1352
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 1352
 Ile Tyr Ser Ser Gly Tyr Phe Gln Ile Tyr Asn Met Leu Leu Leu Thr
 1 5 10 15
 Ile Leu Ile Leu Leu Cys Asn Arg Thr Pro Glu Leu Ile Pro Gly Phe
 20 25 30

Tyr Ile Arg
35

<210> 1353
<211> 106
<212> PRT
<213> Homo sapiens

<400> 1353
Met Val His Ile Ala Ile Lys Thr Pro Leu His Pro Ala Thr Pro Ile
1 5 10 15
Pro His Arg Ala Phe Val Pro Ala Leu Ala Phe Leu Pro Phe Ser Phe
20 25 30
Ser Ser Pro Leu Ser Ser Leu Lys Ala Val Ser Cys Phe Gln Cys Asp
35 40 45
Asn Thr Met Met Ser Phe Gly Arg Ile Cys Gln Asp Arg Leu Ile Leu
50 55 60
Ser Pro Gly Cys Arg Met Cys Met Arg Gln Cys Cys Gln Ala Ile Leu
65 70 75 80
Phe Glu Ala Leu Cys Cys His Asn Tyr His Gln Val His Thr Val Gly
85 90 95
Lys Arg Leu Thr Pro Asp Phe Arg Lys Cys
100 105

<210> 1354
<211> 40
<212> PRT
<213> Homo sapiens

<400> 1354
Met Val Cys Phe Tyr Ala Leu Leu Leu Cys Phe Leu Ser Ser Val Glu
1 5 10 15
Ile Gly Pro Leu Ser Trp Leu Leu Cys Leu Ser His Ile Lys Cys His
20 25 30
Phe Thr Ala Leu Pro Phe Glu Ala
35 40

<210> 1355
<211> 43
<212> PRT
<213> Homo sapiens

<400> 1355
Met His Met Pro Ala Ala Pro Val Thr Val Leu Lys Leu Leu Pro Phe
1 5 10 15

Pro Cys Val Cys Gly Leu Gly Trp Val Pro Ile Gly Cys Val Ser Ile
 20 25 30

Pro Ser His Leu Lys Gly Asn Leu Cys Cys Ser
 35 40

<210> 1356
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1356
 Gly Thr Arg Leu Pro Thr Asn Val Arg Gly Ile Met Val Trp Phe Ser
 1 5 10 15
 Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile Leu Gly Ala Arg Gly
 20 25 30
 Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg His Cys Gly Leu Val
 35 40 45
 Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala Asp Val Leu Ala Val
 50 55 60
 His Ser Gly Gln Val Ser His Ser Pro Glu Pro Gln Arg Leu Tyr Gln
 65 70 75 80
 Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro His Gly Val Val Ser
 85 90 95
 Ala Val Asn Glu Ile Met Tyr Met Lys His Leu Val Tyr Leu Ala Pro
 100 105 110
 Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr Asn Lys Met Glu Leu
 115 120 125
 Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg Gln Ile Leu Gly Val
 130 135 140
 Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro Ser Leu Phe Gly
 145 150 155

<210> 1357
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1357
 Met Leu Gln Gln Lys Thr Gln Phe Tyr Ser Ile Leu Trp Leu Cys Ser
 1 5 10 15
 Ile Pro Trp Cys Val Cys Thr Thr Phe Ser Leu Tyr Ser Pro Pro Leu
 20 25 30
 Met Gly Thr Arg Val Asp Phe Met Ser Leu Asn Met Cys Cys Asn Glu
 35 40 45

Lys Lys His Ile Phe Tyr Lys Met Ile Glu Val
 50 55

<210> 1358
 <211> 165
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any amino acid

<400> 1358
 Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
 1 5 10 15
 Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
 20 25 30
 Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg
 35 40 45
 Ser Asn Arg Gln Leu Gly Ile Xaa Gln Thr Thr Val Phe Thr Pro Val
 50 55 60
 Ala Arg Leu Pro Ile Val Asn Phe Asp Tyr Ser Met Glu Glu Lys Phe
 65 70 75 80
 Glu Ser Phe Ser Ser Phe Pro Gly Val Glu Ser Ser Tyr Asn Val Leu
 85 90 95
 Pro Gly Lys Lys Gly His Cys Leu Val Lys Gly Ile Thr Met Tyr Asn
 100 105 110
 Lys Ala Val Trp Ser Pro Glu Pro Cys Thr Thr Cys Leu Cys Ser Asp
 115 120 125
 Gly Arg Val Leu Cys Asp Glu Thr Met Cys His Pro Gln Arg Cys Pro
 130 135 140
 Gln Thr Val Ile Pro Glu Gly Glu Cys Cys Pro Val Cys Pro Leu Leu
 145 150 155 160
 Val Gln Ser Phe Ser
 165

<210> 1359
 <211> 333
 <212> PRT
 <213> Homo sapiens

<400> 1359
 Met Ser Pro Trp Ser Trp Phe Leu Leu Gln Thr Leu Cys Leu Leu Pro
 1 5 10 15
 Thr Gly Ala Ala Ser Arg Arg Gly Ala Pro Gly Thr Ala Asn Cys Glu

| 20 | | | | | 25 | | | | | 30 | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Pro | Gln | Gln | Ser | Glu | Leu | Asn | Ser | Phe | Leu | Trp | Thr | Ile | Lys |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Arg | Asp | Pro | Pro | Ser | Tyr | Phe | Phe | Gly | Thr | Ile | His | Val | Pro | Tyr | Thr |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Arg | Val | Trp | Asp | Phe | Ile | Pro | Asp | Asn | Ser | Lys | Glu | Ala | Phe | Leu | Gln |
| | 65 | | | | | 70 | | | | | 75 | | | | 80 |
| Ser | Ser | Ile | Val | Tyr | Phe | Glu | Leu | Asp | Leu | Thr | Asp | Pro | Tyr | Thr | Ile |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| Ser | Ala | Leu | Thr | Ser | Cys | Gln | Met | Leu | Pro | Gln | Gly | Glu | Asn | Leu | Gln |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Asp | Val | Leu | Pro | Arg | Asp | Ile | Tyr | Cys | Arg | Leu | Lys | Arg | His | Leu | Glu |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Tyr | Val | Lys | Leu | Met | Met | Pro | Leu | Trp | Met | Thr | Pro | Asp | Gln | Arg | Gly |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Lys | Gly | Leu | Tyr | Ala | Asp | Tyr | Leu | Phe | Asn | Ala | Ile | Ala | Gly | Asn | Trp |
| | 145 | | | | | 150 | | | | | 155 | | | | 160 |
| Glu | Arg | Lys | Arg | Pro | Val | Trp | Val | Met | Leu | Met | Val | Asn | Ser | Leu | Thr |
| | | | | 165 | | | | | 170 | | | | | 175 | |
| Glu | Val | Asp | Ile | Lys | Ser | Arg | Gly | Val | Pro | Val | Leu | Asp | Leu | Phe | Leu |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Ala | Gln | Glu | Ala | Glu | Arg | Leu | Arg | Lys | Gln | Thr | Gly | Ala | Val | Glu | Lys |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Val | Glu | Glu | Gln | Cys | His | Pro | Leu | Asn | Gly | Leu | Asn | Phe | Ser | Gln | Val |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Ile | Phe | Ala | Leu | Asn | Gln | Thr | Leu | Leu | Gln | Gln | Glu | Ser | Leu | Arg | Ala |
| | | | | 230 | | | | | | | 235 | | | | 240 |
| Gly | Ser | Leu | Gln | Ile | Pro | Tyr | Thr | Thr | Glu | Asp | Leu | Ile | Lys | His | Tyr |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Asn | Cys | Gly | Asp | Leu | Ser | Ser | Val | Ile | Leu | Ser | His | Asp | Ser | Ser | Gln |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Val | Pro | Asn | Phe | Ile | Asn | Ala | Thr | Leu | Pro | Pro | Gln | Glu | Arg | Ile | Thr |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Ala | Gln | Glu | Ile | Asp | Ser | Tyr | Leu | Arg | Arg | Glu | Leu | Ile | Tyr | Lys | Arg |
| | | 290 | | | | 295 | | | | | 300 | | | | |
| Asn | Glu | Arg | Ile | Gly | Lys | Arg | Val | Lys | Ala | Leu | Leu | Glu | Glu | Phe | Pro |
| | | | | 310 | | | | | | | 315 | | | | 320 |
| Asp | Lys | Gly | Phe | Phe | Phe | Ala | Phe | Gly | Ala | Ala | Ser | Gln | | | |
| | | | | 325 | | | | | 330 | | | | | | |

<210> 1360
 <211> 226
 <212> PRT
 <213> Homo sapiens

<400> 1360
 Met Glu Thr Val Val Ile Val Ala Ile Gly Val Leu Ala Thr Ile Phe
 1 5 10 15
 Leu Ala Ser Phe Ala Ala Leu Val Leu Val Cys Arg Gln Arg Tyr Cys
 20 25 30
 Arg Pro Arg Asp Leu Leu Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp
 35 40 45
 Leu Ile Gly Ala Met Glu Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu
 50 55 60
 Asp Asp Val Val Ile Thr Asn Pro His Ile Glu Ala Ile Leu Glu Asn
 65 70 75 80
 Glu Asp Trp Ile Glu Asp Ala Ser Gly Leu Met Ser His Cys Ile Ala
 85 90 95
 Ile Leu Lys Ile Cys His Thr Leu Thr Glu Lys Leu Val Ala Met Thr
 100 105 110
 Met Gly Ser Gly Ala Lys Met Lys Thr Ser Ala Ser Val Ser Asp Ile
 115 120 125
 Ile Val Val Ala Lys Arg Ile Ser Pro Arg Val Asp Asp Val Val Lys
 130 135 140
 Ser Met Tyr Pro Pro Leu Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr
 145 150 155 160
 Ala Leu Leu Leu Ser Val Ser His Leu Val Leu Val Thr Arg Asn Ala
 165 170 175
 Cys His Leu Thr Gly Gly Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala
 180 185 190
 Ala Glu Glu His Leu Glu Val Leu Arg Glu Ala Ala Leu Ala Ser Glu
 195 200 205
 Pro Asp Lys Gly Leu Pro Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser
 210 215 220
 Ala Ile
 225

<210> 1361
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 1361
 Met Cys Thr Leu Phe Val Leu Ala Val Leu Leu Pro Val Leu Phe Leu

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      1             5             10             15
Leu Tyr Arg His Arg Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu
      20             25             30
Cys Ala Ser Val His Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu
      35             40             45
Thr Arg Pro Leu Asn Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His
      50             55             60
Arg Gly Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ala Arg Val Phe
      65             70             75             80
Thr Glu Ser Glu Lys Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu
      85             90             95
Val Ser Pro Val Cys Pro Arg Pro Arg Val Arg Leu Gly Ser Glu Ile
      100            105            110
Arg Asp Ser Val Val
      115

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<210> 1362
 <211> 404
 <212> PRT
 <213> Homo sapiens

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<400> 1362
Met Arg Leu Gln Asp Val Tyr Met Leu Asn Val Lys Gly Leu Ala Arg
  1             5             10             15
Gly Val Phe Gln Arg Val Thr Gly Ser Ala Ile Thr Asp Leu Tyr Ser
      20             25             30
Pro Lys Arg Leu Phe Ser Leu Thr Gly Asp Asp Cys Phe Gln Val Gly
      35             40             45
Lys Val Ala Tyr Asp Met Gly Asp Tyr Tyr His Ala Ile Pro Trp Leu
      50             55             60
Glu Glu Ala Val Ser Leu Phe Arg Gly Ser Tyr Gly Glu Trp Lys Thr
      65             70             75             80
Glu Asp Glu Ala Ser Leu Glu Asp Ala Leu Asp His Leu Ala Phe Ala
      85             90             95
Tyr Phe Arg Ala Gly Asn Val Ser Cys Ala Leu Ser Leu Ser Arg Glu
      100            105            110
Phe Leu Leu Tyr Ser Pro Asp Asn Lys Arg Met Ala Arg Asn Val Leu
      115            120            125
Lys Tyr Glu Arg Leu Leu Ala Glu Ser Pro Asn His Val Val Ala Glu
      130            135            140
Ala Val Ile Gln Arg Pro Asn Ile Pro His Leu Gln Thr Arg Asp Thr
      145            150            155            160

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Tyr Glu Gly Leu Cys Gln Thr Leu Gly Ser Gln Pro Thr Leu Tyr Gln
 165 170 175
 Ile Pro Ser Leu Tyr Cys Ser Tyr Glu Thr Asn Ser Asn Ala Tyr Leu
 180 185 190
 Leu Leu Gln Pro Ile Arg Lys Glu Val Ile His Leu Glu Pro Tyr Ile
 195 200 205
 Ala Leu Tyr His Asp Phe Val Ser Asp Ser Glu Ala Gln Lys Ile Arg
 210 215 220
 Glu Leu Ala Glu Pro Trp Leu Gln Arg Ser Val Val Ala Ser Gly Glu
 225 230 235 240
 Lys Gln Leu Gln Val Glu Tyr Arg Ile Ser Lys Ser Ala Trp Leu Lys
 245 250 255
 Asp Thr Val Asp Leu Lys Leu Val Thr Leu Asn His Arg Ile Ala Ala
 260 265 270
 Leu Thr Gly Leu Asp Val Arg Pro Pro Tyr Ala Glu Tyr Leu Gln Val
 275 280 285
 Val Asn Tyr Gly Ile Gly Gly His Tyr Glu Pro His Phe Asp His Ala
 290 295 300
 Thr Ser Pro Ser Ser Pro Leu Tyr Arg Met Lys Ser Gly Asn Arg Val
 305 310 315 320
 Ala Thr Phe Met Ile Tyr Leu Ser Ser Val Glu Ala Gly Gly Ala Thr
 325 330 335
 Ala Phe Ile Tyr Ala Asn Leu Ser Val Pro Val Val Arg Asn Ala Ala
 340 345 350
 Leu Phe Trp Trp Asn Leu His Arg Ser Gly Glu Gly Asp Ser Asp Thr
 355 360 365
 Leu His Ala Gly Cys Pro Val Leu Val Gly Asp Lys Trp Val Ala Asn
 370 375 380
 Lys Trp Ile His Glu Tyr Gly Gln Glu Phe Arg Arg Pro Cys Ser Ser
 385 390 395 400
 Ser Pro Glu Asp

<210> 1363
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 1363
 Met Val Val Leu Phe Arg Trp Val Pro Val Thr Asp Ala Tyr Trp Gln
 1 5 10 15

Ile Leu Phe Ser Val Leu Lys Val Thr Arg Asn Leu Lys Glu Leu Asp

20 25 30
 Leu Ser Gly Asn Ser Leu Ser His Ser Ala Val Lys Ser Leu Cys Lys
 35 40 45
 Thr Leu Arg Arg Pro Arg Cys Leu Leu Glu Thr Leu Arg Leu Ala Gly
 50 55 60
 Cys Gly Leu Thr Ala Glu Asp Cys Lys Asp Leu Ala Phe Gly Leu Arg
 65 70 75 80
 Ala Asn Gln Thr Leu Thr Glu Leu Asp Leu Ser Phe Asn Val Leu Thr
 85 90 95
 Asp Ala Gly Ala Lys His Leu Cys Gln Arg Leu Arg Gln Pro Ser Cys
 100 105 110
 Lys Leu Gln Arg Leu Gln Leu Val Ser Cys Gly Leu Thr Ser Asp Cys
 115 120 125
 Cys Gln Asp Leu Ala Ser Val Leu Ser Ala Ser Pro Ser Leu Lys Glu
 130 135 140
 Leu Asp Leu Gln Gln Asn Asn Leu Asp Asp Val Gly Val Arg Leu Leu
 145 150 155 160
 Cys Glu Gly Leu Ser Ile Leu Pro Ala Asn Ser Tyr Ala Trp Gly Trp
 165 170 175
 Thr Arg Gln Leu
 180

<210> 1364
 <211> 484
 <212> PRT
 <213> Homo sapiens

<400> 1364
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Leu Trp Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
 20 25 30
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg
 35 40 45
 Arg Pro Val Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
 50 55 60
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
 65 70 75 80
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
 85 90 95
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
 100 105 110

Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
 115 120 125
 Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu
 130 135 140
 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
 145 150 155 160
 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
 165 170 175
 Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val
 180 185 190
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
 195 200 205
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp
 210 215 220
 Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val
 225 230 235 240
 Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe
 245 250 255
 Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg
 260 265 270
 Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu
 275 280 285
 Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala
 290 295 300
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val
 305 310 315 320
 Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr
 325 330 335
 Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe
 340 345 350
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser
 355 360 365
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys
 370 375 380
 Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln
 385 390 395 400
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe
 405 410 415
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu
 420 425 430
 Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala

435 440 445
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn
 450 455 460
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly
 465 470 475 480
 Gln Ile His Arg

<210> 1365
 <211> 410
 <212> PRT
 <213> Homo sapiens

<400> 1365
 Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala
 1 5 10 15
 Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val
 20 25 30
 Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala
 35 40 45
 Arg Gly Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly
 50 55 60
 Gly Pro Val Pro Glu Val Leu Arg Asn Tyr Met Asp Ala Gln Tyr Tyr
 65 70 75 80
 Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe
 85 90 95
 Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu
 100 105 110
 Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Gly Lys Ser
 115 120 125
 Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser
 130 135 140
 Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys
 145 150 155 160
 Lys Ser Gly Leu Ser Ser Leu Ala Gly Val Lys Val Glu Arg Gln Thr
 165 170 175
 Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala Ala Lys
 180 185 190
 Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val Asn Asn
 195 200 205
 Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val Glu Lys
 210 215 220

Asn Ile Phe Ser Phe Tyr Leu Asn Arg Asp Pro Gly Ala Gln Pro Gly
 225 230 235 240
 Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys Gly Pro
 245 250 255
 Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val His Met
 260 265 270
 Glu Gln Val Asp Val Gly Ser Ser Leu Thr Leu Cys Lys Gly Gly Cys
 275 280 285
 Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Ile Val Gly Pro Val Asp
 290 295 300
 Glu Val Arg Glu Leu Gln Lys Ala Ile Gly Ala Val Pro Leu Ile Gln
 305 310 315 320
 Gly Glu Tyr Met Ile Pro Cys Glu Lys Val Ser Thr Leu Pro Glu Val
 325 330 335
 Thr Leu Thr Leu Gly Gly Lys Pro Tyr Lys Leu Ser Ser Glu Asp Tyr
 340 345 350
 Thr Leu Lys Val Ser Gln Gly Gly Lys Ser Ile Cys Leu Ser Gly Phe
 355 360 365
 Met Gly Met Asp Ile Pro Pro Pro Gly Gly Pro Leu Trp Ile Leu Gly
 370 375 380
 Asp Val Phe Ile Gly Arg Tyr Tyr Thr Val Phe Asp Arg Asp Gln Asn
 385 390 395 400
 Arg Val Gly Leu Ala Glu Ala Thr Arg Leu
 405 410

<210> 1366

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any amino acid

<400> 1366

Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe
 1 5 10 15
 Ser Ser Val Thr Leu Tyr His Arg Val His His Gln Xaa Val Phe Ser
 20 25 30
 Gln Glu Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile
 35 40 45
 Cys Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile
 50 55 60

Pro Val Leu Arg Tyr Ala Ser Ile Glu
65 70

<210> 1367

<211> 627

<212> PRT

<213> Homo sapiens

<400> 1367

Met Glu Ala Arg Val Val His Ala Leu Gln Lys Arg Gln Val Ser Leu
1 5 10 15
Leu Cys Val Phe Leu Gly Val Ser Trp Ala Gly Ala Glu Pro Leu Arg
20 25 30
Tyr Phe Val Ala Glu Glu Thr Glu Arg Gly Thr Phe Leu Ala Asn Leu
35 40 45
Ala Ile Asp Leu Gly Leu Gly Val Glu Glu Leu Ser Ala Arg Gly Cys
50 55 60
Arg Ile Val Ser Asp Glu Thr Ile Gly Phe Leu Leu Leu Asn Pro Leu
65 70 75 80
Thr Gly Asp Leu Leu Leu Asn Glu Lys Leu Asp Arg Glu Glu Leu Cys
85 90 95
Gly Pro Thr Glu Pro Cys Val Leu Pro Phe Gln Leu Leu Leu Glu Lys
100 105 110
Pro Phe Gln Ile Phe Arg Ala Glu Leu Trp Val Arg Asp Ile Asn Asp
115 120 125
His Ser Pro Val Phe Leu Asp Arg Glu Ile Thr Leu Asn Ile Leu Glu
130 135 140
Ser Thr Thr Pro Gly Ala Thr Phe Leu Leu Glu Ser Ala His Asp Ser
145 150 155 160
Asp Val Gly Ile Asn Asn Leu Arg Asn Tyr Thr Ile Ser Ser Asn Val
165 170 175
Tyr Phe His Ile Asn Val His Asp Asn Gly Glu Gly Asn Val Tyr Ser
180 185 190
Glu Leu Val Leu Asp Lys Val Leu Asp Arg Glu Glu Val Pro Glu Leu
195 200 205
Arg Leu Thr Leu Thr Gly Leu Asp Gly Gly Ser Pro Pro Arg Ser Gly
210 215 220
Thr Thr Leu Ile Arg Ile Leu Val Leu Asp Ile Asn Asp Asn Val Pro
225 230 235 240
Glu Phe Val Glu Ser Leu Tyr Lys Val Gln Val Pro Glu Asn Ser Pro
245 250 255
Val Gly Ser Leu Val Val Thr Val Ser Ala Arg Asp Leu Asp Thr Gly
260 265 270

Ser Asn Gly Glu Ile Val Tyr Ala Phe Phe Tyr Ala Thr Glu Arg Thr
 275 280 285
 Leu Lys Thr Phe Arg Ile Asn Ser Thr Ser Gly Asn Leu His Leu Lys
 290 295 300
 Ala Glu Leu Asn Tyr Glu Ala Ile Gln Thr Tyr Thr Leu Thr Ile Gln
 305 310 315 320
 Ala Lys Asp Gly Gly Gly Leu Ser Gly Lys Cys Thr Val Val Val His
 325 330 335
 Val Thr Asp Ile Asn Asp Asn Pro Pro Glu Leu Leu Met Ser Ser Leu
 340 345 350
 Thr Ser Pro Ile Pro Glu Asn Ser Pro Glu Thr Val Val Ala Val Phe
 355 360 365
 Arg Ile Arg Asp Arg Asp Ser Gly Asn Asn Ala Lys Met Val Cys Ser
 370 375 380
 Ile Gln Asp His Leu Pro Phe Val Leu Lys Pro Ser Val Glu Asn Phe
 385 390 395 400
 Tyr Thr Leu Val Thr Glu Arg Ala Leu Asp Arg Glu Glu Arg Thr Glu
 405 410 415
 Tyr Asn Ile Thr Ile Thr Val Thr Asp Leu Gly Thr Pro Arg Leu Lys
 420 425 430
 Thr Gln His Asn Leu Thr Val Thr Val Ser Asp Val Asn Asp Asn Ala
 435 440 445
 Pro Thr Phe Ser Gln Thr Thr Tyr Thr Leu Arg Val Arg Glu Asn Asn
 450 455 460
 Ser Pro Ala Leu His Ile Gly Ser Val Ser Ala Thr Asp Arg Asp Ser
 465 470 475 480
 Gly Ala Asn Ala Gln Val Thr Tyr Ser Leu Leu Pro Pro His Asp Pro
 485 490 495
 Gln Leu Pro Leu Gly Ser Leu Val Ser Ile Asn Ala Asp Asn Gly Gln
 500 505 510
 Leu Phe Ala Leu Arg Ser Leu Asp Phe Glu Ala Leu Gln Ala Phe Glu
 515 520 525
 Phe Arg Val Gly Ala Ala Asp Arg Gly Ser Pro Ala Leu Ser Ser Gln
 530 535 540
 Ala Leu Val Arg Val Leu Val Ala Asp Ala Asn Asp Asn Ala Pro Phe
 545 550 555 560
 Val Leu Tyr Pro Leu Gln Asn Gly Ser Ala Pro Cys Thr Glu Leu Val
 565 570 575
 Pro Arg Ala Ala Glu Ala Gly Tyr Leu Val Ala Lys Val Val Ala Val
 580 585 590

Asp Gly Asp Ser Gly Gln Asn Ala Trp Leu Ser Tyr Gln Leu Leu Lys
 595 600 605

Ala Thr Glu Pro Gly Leu Phe Gly Val Trp Ala His Asn Gly Glu Val
 610 615 620

Arg Thr Ala
 625

<210> 1368
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1368
 Met Leu Leu Leu Gln Ser Leu Phe Phe Pro Met Ser Trp Gly Ser Gly
 1 5 10 15

Gly Gly Gly Lys Gly Arg Asp Asp Leu Pro Arg Glu Lys Pro Thr Thr
 20 25 30

Cys Pro Val Phe Asp Arg Leu Phe Asp Ile Phe Ala Lys Ile Pro Leu
 35 40 45

Val Glu Ser Gln Ala Ser Cys Ala Arg Ile Gly Ile Ala Ala Ser His
 50 55 60

Trp Arg Leu Asp Cys Ser Val Asp Gly Met Gln Ala Asp Cys Leu Ser
 65 70 75 80

Leu Ile

<210> 1369
 <211> 363
 <212> PRT
 <213> Homo sapiens

<400> 1369
 Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95

Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
 100 105 110
 Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys
 115 120 125
 Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn
 130 135 140
 Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser
 145 150 155 160
 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln
 165 170 175
 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp
 180 185 190
 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe
 195 200 205
 Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe
 210 215 220
 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His
 225 230 235 240
 Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala
 245 250 255
 Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr
 260 265 270
 Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn
 275 280 285
 Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu
 290 295 300
 Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu
 305 310 315 320
 Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys
 325 330 335
 Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His
 340 345 350
 Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val
 355 360

<210> 1370

<211> 129

<212> PRT

<213> Homo sapiens

<400> 1370

Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala
 1 5 10 15

Ala Ala Arg Ala Gly Pro Tyr Phe Arg Pro Gly Arg Gly Cys Arg Leu
 20 25 30
 Pro Leu Arg Gly Asp Gln Leu Ser Gly Leu Gly Arg Arg Thr Tyr Pro
 35 40 45
 Arg Pro His Glu Tyr Leu Ser Pro Ser Asp Leu Pro Lys Ser Trp Asp
 50 55 60
 Trp Arg Asn Val Asn Gly Val Asn Tyr Ala Ser Ala Thr Arg Asn Gln
 65 70 75 80
 His Ile Pro Gln Tyr Cys Gly Ser Cys Trp Ala His Gly Ser Thr Ser
 85 90 95
 Ala Met Ala Gly Pro Asp Gln His Gln Glu Lys Gly Gly Val Ala Leu
 100 105 110
 His Pro Ala Val Arg Ala Ala Arg Pro Arg Leu Arg Gln Arg Gly Leu
 115 120 125
 Leu

<210> 1371
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1371
 Met Arg Glu Lys Thr Gly Ala Leu Pro Arg Cys Leu Gly Leu Leu Gly
 1 5 10 15
 Val Gly Leu Leu Trp Arg Trp Cys Gly Arg Arg Ala Arg Ala Gly Val
 20 25 30
 Gly Lys Ala Trp Ser Ala Thr Arg Ser Pro Ser Asp Ser Cys Phe Pro
 35 40 45
 Gly Val Ala Arg Val Gly Ile
 50 55

<210> 1372
 <211> 522
 <212> PRT
 <213> Homo sapiens

<400> 1372
 Met Ala Ala Ala Met Pro Leu Ala Leu Leu Val Leu Leu Leu Gly
 1 5 10 15
 Pro Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu
 20 25 30
 Glu Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Thr Phe
 35 40 45

Gln Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser
 50 55 60
 His Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr
 65 70 75 80
 Ser Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr
 85 90 95
 Arg Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His
 100 105 110
 Tyr Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu
 115 120 125
 Asn Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly
 130 135 140
 Leu Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His
 145 150 155 160
 Ser Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr
 165 170 175
 Ser Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala
 180 185 190
 Phe Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe
 195 200 205
 Ser Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg Val
 210 215 220
 Tyr Val Asp Ile Thr Thr Tyr Asn Gln Asp Asn Glu Thr Leu Glu Val
 225 230 235 240
 His Pro Pro Pro Thr Thr Thr Tyr Gln Asp Val Ile Leu Gly Thr Arg
 245 250 255
 Lys Thr Tyr Ala Ile Tyr Asp Leu Leu Asp Thr Ala Met Ile Asn Asn
 260 265 270
 Ser Arg Asn Leu Asn Ile Gln Leu Lys Trp Lys Arg Pro Pro Glu Asn
 275 280 285
 Glu Ala Pro Pro Val Pro Phe Leu His Ala Gln Arg Tyr Val Ser Gly
 290 295 300
 Tyr Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His
 305 310 315 320
 Pro Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr
 325 330 335
 Leu Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu
 340 345 350
 Asn Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln
 355 360 365

Pro His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr
 370 375 380
 Lys Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr
 385 390 395 400
 Thr Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser
 405 410 415
 Ala Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu
 420 425 430
 Ser Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr
 435 440 445
 Phe Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro
 450 455 460
 Asp Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val
 465 470 475 480
 Ala Val Cys Tyr Gly Ser Phe Tyr Asn Leu Thr Arg Thr Phe His
 485 490 495
 Ile Glu Glu Pro Arg Thr Gly Gly Leu Ala Lys Arg Leu Ala Asn Leu
 500 505 510
 Ile Arg Arg Ala Arg Gly Val Pro Pro Leu
 515 520

<210> 1373
 <211> 246
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (222)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (223)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (244)
 <223> Xaa equals any amino acid

<400> 1373

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Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly Pro
 1           5           10           15

Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu Arg Val
      20           25           30

Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Leu
 35           40           45

Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr Asp Arg Ser Asp
 50           55           60

Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly Ala Ala Val Ser Val
 65           70           75           80

Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
      85           90           95

Ala Asp Glu Gly Leu Ala Ser Leu Ser Glu Asp Gly Arg Ser Pro Ile
      100           105           110

Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile
      115           120           125

Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro
      130           135           140

Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser
      145           150           155           160

Ala Phe Leu Thr Ala Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val
      165           170           175

Val Phe Phe Asp Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu
      180           185           190

Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro
      195           200           205

Trp Tyr Glu Ala Ser Leu Leu Pro Ser Met Gln Ser Leu Xaa Xaa Trp
      210           215           220

Gly Ser Gly Pro Ser Ser Gln Leu Glu Gly Pro Xaa Lys Tyr Ser Ala
      225           230           235           240

Gln Xaa Leu Xaa Lys Asp
      245

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<210> 1374

<211> 453

<212> PRT

<213> Homo sapiens

<400> 1374

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Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met Val Ile
 1           5           10           15

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Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg
 20 25 30
 Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val Asp Leu Gly Phe
 35 40 45
 Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln Thr Trp Leu Ala
 50 55 60
 Phe Met Ile Ile Leu Ser Ile Leu Glu Val Ile Ile Ile Leu Leu Leu
 65 70 75 80
 Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala Leu Ile Lys Glu
 85 90 95
 Ala Ser Arg Ala Val Gly Tyr Val Met Cys Ser Leu Leu Tyr Pro Leu
 100 105 110
 Val Thr Phe Phe Leu Leu Cys Leu Cys Ile Ala Tyr Trp Ala Ser Thr
 115 120 125
 Ala Val Phe Leu Ser Thr Ser Asn Glu Ala Val Tyr Lys Ile Phe Asp
 130 135 140
 Asp Ser Pro Cys Pro Phe Thr Ala Lys Thr Cys Asn Pro Glu Thr Phe
 145 150 155 160
 Pro Ser Ser Asn Glu Ser Arg Gln Cys Pro Asn Ala Arg Cys Gln Phe
 165 170 175
 Ala Phe Tyr Gly Gly Glu Ser Gly Tyr His Arg Ala Leu Leu Gly Leu
 180 185 190
 Gln Ile Phe Asn Ala Phe Met Phe Phe Trp Leu Ala Asn Phe Val Leu
 195 200 205
 Ala Leu Gly Gln Val Thr Leu Ala Gly Ala Phe Ala Ser Tyr Tyr Trp
 210 215 220
 Ala Leu Arg Lys Pro Asp Asp Leu Pro Ala Phe Pro Leu Phe Ser Ala
 225 230 235 240
 Phe Gly Arg Ala Leu Arg Tyr His Thr Gly Ser Leu Ala Phe Gly Ala
 245 250 255
 Leu Ile Leu Ala Ile Val Gln Ile Ile Arg Val Ile Leu Glu Tyr Leu
 260 265 270
 Asp Gln Arg Leu Lys Ala Ala Glu Asn Lys Phe Ala Lys Cys Leu Met
 275 280 285
 Thr Cys Leu Lys Cys Cys Phe Trp Cys Leu Glu Lys Phe Ile Lys Phe
 290 295 300
 Leu Asn Arg Asn Ala Tyr Ile Met Ile Ala Ile Tyr Gly Thr Asn Phe
 305 310 315 320
 Cys Thr Ser Ala Arg Asn Ala Phe Phe Leu Leu Met Arg Asn Ile Ile
 325 330 335
 Arg Val Ala Val Leu Asp Lys Val Thr Asp Phe Leu Phe Leu Leu Gly

<400> 1376
Met Gly Ala Ala Gly Arg Gln Asp Phe Leu Phe Lys Ala Met Leu Thr
1 5 10 15
Ile Ser Trp Leu Thr Leu Thr Cys Phe Pro Gly Ala Thr Ser Thr Val
20 25 30

Ala Ala Gly Cys Pro Asp Gln Ser Pro Glu Leu Gln Pro Trp Asn Pro
 35 40 45
 Gly His Asp Gln Asp His His Val His Ile Gly Gln Gly Lys Thr Leu
 50 55 60
 Leu Leu Thr Ser Ser Ala Thr Val Tyr Ser Ile His Ile Ser Glu Gly
 65 70 75 80
 Gly Lys Leu Val Ile Lys Asp His Asp Glu Pro Ile Val Leu Arg Thr
 85 90 95
 Arg His Ile Leu Ile Asp Asn Gly Gly Xaa Leu His Ala Gly Glu Cys
 100 105 110
 Pro Leu Pro Phe Pro Gly Gln Phe His His His Phe Val Trp Lys Gly
 115 120 125

<210> 1377

<211> 199

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (120)

<223> Xaa equals any amino acid

<400> 1377

Met Thr Ser Cys Gly Gln Gln Ser Leu Asn Val Leu Ala Val Leu Phe
 1 5 10 15

Ser Leu Leu Phe Ser Ala Val Leu Ser Ala His Phe Arg Val Cys Glu
 20 25 30

Pro Tyr Thr Asp His Lys Gly Arg Tyr His Phe Gly Phe His Cys Pro
 35 40 45

Arg Leu Ser Asp Asn Lys Thr Phe Ile Leu Cys Cys His His Asn Asn
 50 55 60

Thr Val Phe Lys Tyr Cys Cys Asn Glu Thr Glu Phe Gln Ala Val Met
 65 70 75 80

Gln Ala Asn Leu Thr Ala Ser Ser Glu Gly Tyr Met His Asn Asn Tyr
 85 90 95

Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe Phe Val Leu Met Leu
 100 105 110

Leu Val Leu Asp Leu Xaa Tyr Xaa Ser Ala Met Asn Tyr Asp Ile Cys
 115 120 125
 Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly Arg Trp Met Lys Gln
 130 135 140
 Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala Pro Arg Pro Gly Gln
 145 150 155 160
 Arg Ala Pro Gln Pro Gln Pro Pro Pro Gly Pro Leu Pro Gln Ala Pro
 165 170 175
 Gln Ala Val His Thr Leu Arg Gly Asp Ala His Ser Pro Pro Leu Met
 180 185 190
 Thr Phe Gln Ser Ser Ser Ala
 195

<210> 1378
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 1378
 Met Ser Arg Thr Ala Tyr Thr Val Gly Ala Leu Leu Leu Leu Leu Gly
 1 5 10 15
 Thr Leu Leu Pro Ala Ala Glu Gly Lys Lys Lys Gly Ser Gln Gly Ala
 20 25 30
 Ile Pro Pro Pro Asp Lys Ala Gln His Asn Asp Ser Glu Gln Thr Gln
 35 40 45
 Ser Pro Gln Gln Pro Gly Ser Arg Asn Arg Gly Arg Gly Gln Gly Arg
 50 55 60
 Gly Thr Ala Met Pro Gly Glu Glu Val Leu Glu Ser Ser Gln Glu Ala
 65 70 75 80
 Leu His Val Thr Glu Arg Lys Tyr Leu Lys Arg Asp Trp Cys Lys Thr
 85 90 95
 Gln Pro Leu Lys Gln Thr Ile His Glu Glu Gly Cys Asn Ser Arg Thr
 100 105 110
 Ile Ile Asn Arg Phe Cys Tyr Gly Gln Cys Asn Ser Phe Tyr Ile Pro
 115 120 125
 Arg His Ile Arg Lys Glu Glu Gly Ser Phe Gln Ser Cys Ser Phe Cys
 130 135 140
 Lys Pro Lys Lys Phe Thr Thr Met Met Val Thr Leu Asn Cys Pro Glu
 145 150 155 160
 Leu Gln Pro Pro Thr Lys Lys Lys Arg Val Thr Arg Val Lys Gln Cys
 165 170 175
 Arg Cys Ile Ser Ile Asp Leu Asp
 180

<210> 1379
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1379
 Met Arg Pro Val Leu Arg Arg Thr Phe Leu Leu Thr Leu Phe Ser Val
 1 5 10 15
 Ile Ala Leu Thr Lys Ile Lys His Asp Phe Phe Ile Met Cys Ser His
 20 25 30
 Met Gln Cys Ile Pro Arg Val Phe Leu Lys His Glu Phe Asn Asn Ile
 35 40 45

<210> 1380
 <211> 494
 <212> PRT
 <213> Homo sapiens

<400> 1380
 Met Arg Pro Pro Gly Phe Arg Asn Phe Leu Leu Leu Ala Ser Ser Leu
 1 5 10 15
 Leu Phe Ala Gly Leu Ser Ala Val Pro Gln Ser Phe Ser Pro Ser Leu
 20 25 30
 Arg Ser Trp Pro Gly Ala Ala Cys Arg Leu Ser Arg Ala Glu Ser Glu
 35 40 45
 Arg Arg Cys Arg Ala Pro Gly Gln Pro Pro Gly Ala Ala Leu Cys His
 50 55 60
 Gly Arg Gly Arg Cys Asp Cys Gly Val Cys Ile Cys His Val Thr Glu
 65 70 75 80
 Pro Gly Met Phe Phe Gly Pro Leu Cys Glu Cys His Glu Trp Val Cys
 85 90 95
 Glu Thr Tyr Asp Gly Ser Thr Cys Ala Gly His Gly Lys Cys Asp Cys
 100 105 110
 Gly Lys Cys Lys Cys Asp Gln Gly Trp Tyr Gly Asp Ala Cys Gln Tyr
 115 120 125
 Pro Thr Asn Cys Asp Leu Thr Lys Lys Lys Ser Asn Gln Met Cys Lys
 130 135 140
 Asn Ser Gln Asp Ile Ile Cys Ser Asn Ala Gly Thr Cys His Cys Gly
 145 150 155 160
 Arg Cys Lys Cys Asp Asn Ser Asp Gly Ser Gly Leu Val Tyr Gly Lys
 165 170 175

Phe Cys Glu Cys Asp Asp Arg Glu Cys Ile Asp Asp Glu Thr Glu Glu
 180 185 190
 Ile Cys Gly Gly His Gly Lys Cys Tyr Cys Gly Asn Cys Tyr Cys Lys
 195 200 205
 Ala Gly Trp His Gly Asp Lys Cys Glu Phe Gln Cys Asp Ile Thr Pro
 210 215 220
 Trp Glu Ser Lys Arg Arg Cys Thr Ser Pro Asp Gly Lys Ile Cys Ser
 225 230 235 240
 Asn Arg Gly Thr Cys Val Cys Gly Glu Cys Thr Cys His Asp Val Asp
 245 250 255
 Pro Thr Gly Asp Trp Gly Asp Ile His Gly Asp Thr Cys Glu Cys Asp
 260 265 270
 Glu Arg Asp Cys Arg Ala Val Tyr Asp Arg Tyr Ser Asp Asp Phe Cys
 275 280 285
 Ser Gly His Gly Gln Cys Asn Cys Gly Arg Cys Asp Cys Lys Ala Gly
 290 295 300
 Trp Tyr Gly Lys Lys Cys Glu His Pro Gln Ser Cys Thr Leu Ser Ala
 305 310 315 320
 Glu Glu Ser Ile Arg Lys Cys Gln Gly Ser Ser Asp Leu Pro Cys Ser
 325 330 335
 Gly Arg Gly Lys Cys Glu Cys Gly Lys Cys Thr Cys Tyr Pro Pro Gly
 340 345 350
 Asp Arg Arg Val Tyr Gly Lys Thr Cys Glu Cys Asp Asp Arg Arg Cys
 355 360 365
 Glu Asp Leu Asp Gly Val Val Cys Gly Gly His Gly Thr Cys Ser Cys
 370 375 380
 Gly Arg Cys Val Cys Glu Arg Gly Trp Phe Gly Lys Leu Cys Gln His
 385 390 395 400
 Pro Arg Lys Cys Asn Met Thr Glu Glu Gln Ser Lys Asn Leu Cys Glu
 405 410 415
 Ser Ala Asp Gly Ile Leu Cys Ser Gly Lys Gly Ser Cys His Cys Gly
 420 425 430
 Lys Cys Ile Cys Ser Ala Glu Glu Trp Tyr Ile Ser Gly Glu Phe Cys
 435 440 445
 Asp Cys Asp Asp Arg Asp Cys Asp Lys His Asp Gly Leu Ile Cys Thr
 450 455 460
 Gly Asn Gly Ile Cys Ser Cys Gly Asn Cys Glu Cys Trp Asp Gly Trp
 465 470 475 480
 Asn Gly Asn Ala Cys Glu Ile Trp Leu Gly Ser Glu Tyr Pro
 485 490

<210> 1381
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 1381
 Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser
 1 5 10 15
 Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu
 20 25 30
 Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Gly Asp Leu Met
 35 40 45
 Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His
 50 55 60
 Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly
 65 70 75 80
 Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys
 85 90 95
 Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly
 100 105 110
 Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn
 115 120 125
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 130 135 140
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
 145 150 155 160
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
 165 170 175
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
 180 185 190
 Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
 195 200 205
 Asp Glu Leu
 210

<210> 1382
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1382
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys
 1 5 10 15

Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg
 20 25 30

Val Ser Gln Lys Arg Gly His Ile
 35 40

<210> 1383

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1383

Met Trp Ser Ser Ile Arg Leu Leu Ser Pro Val Leu Ser Leu Ile Leu
 1 5 10 15

Leu Leu Ile Ala Leu Glu Leu Val Asn Ile His Ala Val Cys Gly Lys
 20 25 30

Asn Ala His Glu Tyr Gln Gln Tyr Leu Lys Phe Val Lys Ser Ile Leu
 35 40 45

Gln Tyr Thr Glu Asn Leu Val Ala Tyr Thr Ser Tyr Glu Lys Asn Lys
 50 55 60

Trp Asn Glu Thr Ile Asn Leu Thr His Thr Ala Leu Leu Lys Met Trp
 65 70 75 80

Thr Phe Ser Glu Lys Lys Gln Met Leu Ile His Leu Ala Lys Lys Ser
 85 90 95

Thr Ser Lys Val Leu Leu
 100

<210> 1384

<211> 624

<212> PRT

<213> Homo sapiens

<400> 1384

Met Glu Ile Pro Gly Ser Leu Cys Lys Lys Val Lys Leu Ser Asn Asn
 1 5 10 15

Ala Gln Asn Trp Gly Met Gln Arg Ala Thr Asn Val Thr Tyr Gln Ala
 20 25 30

His His Val Ser Arg Asn Lys Arg Gly Gln Val Val Gly Thr Arg Gly
 35 40 45

Gly Phe Arg Gly Cys Thr Val Trp Leu Thr Gly Leu Ser Gly Ala Gly
 50 55 60

Lys Thr Thr Val Ser Met Ala Leu Glu Glu Tyr Leu Val Cys His Gly
 65 70 75 80

Ile Pro Cys Tyr Thr Leu Asp Gly Asp Asn Ile Arg Gln Gly Leu Asn
 85 90 95

Lys Asn Leu Gly Phe Ser Pro Glu Asp Arg Glu Glu Asn Val Arg Arg
 100 105 110
 Ile Ala Glu Val Ala Lys Leu Phe Ala Asp Ala Gly Leu Val Cys Ile
 115 120 125
 Thr Ser Phe Ile Ser Pro Tyr Thr Gln Asp Arg Asn Asn Ala Arg Gln
 130 135 140
 Ile His Glu Gly Ala Ser Leu Pro Phe Phe Glu Val Phe Val Asp Ala
 145 150 155 160
 Pro Leu His Val Cys Glu Gln Arg Asp Val Lys Gly Leu Tyr Lys Lys
 165 170 175
 Ala Arg Ala Gly Glu Ile Lys Gly Phe Thr Gly Ile Asp Ser Glu Tyr
 180 185 190
 Glu Lys Pro Glu Ala Pro Glu Leu Val Leu Lys Thr Asp Ser Cys Asp
 195 200 205
 Val Asn Asp Cys Val Gln Gln Val Val Glu Leu Leu Gln Glu Arg Asp
 210 215 220
 Ile Val Pro Val Asp Ala Ser Tyr Glu Val Lys Glu Leu Tyr Val Pro
 225 230 235 240
 Glu Asn Lys Leu His Leu Ala Lys Thr Asp Ala Glu Thr Leu Pro Ala
 245 250 255
 Leu Lys Ile Asn Lys Val Asp Met Gln Trp Val Gln Val Leu Ala Glu
 260 265 270
 Gly Trp Ala Thr Pro Leu Asn Gly Phe Met Arg Glu Arg Glu Tyr Leu
 275 280 285
 Gln Cys Leu His Phe Asp Cys Leu Leu Asp Gly Gly Val Ile Asn Leu
 290 295 300
 Ser Val Pro Ile Val Leu Thr Ala Thr His Glu Asp Lys Glu Arg Leu
 305 310 315 320
 Asp Gly Cys Thr Ala Phe Ala Leu Met Tyr Glu Gly Arg Arg Val Ala
 325 330 335
 Ile Leu Arg Asn Pro Glu Phe Phe Glu His Arg Lys Glu Glu Arg Cys
 340 345 350
 Ala Arg Gln Trp Gly Thr Thr Cys Lys Asn His Pro Tyr Ile Lys Met
 355 360 365
 Val Met Glu Gln Gly Asp Trp Leu Ile Gly Gly Asp Leu Gln Val Leu
 370 375 380
 Asp Arg Val Tyr Trp Asn Asp Gly Leu Asp Gln Tyr Arg Leu Thr Pro
 385 390 395 400
 Thr Glu Leu Lys Gln Lys Phe Lys Asp Met Asn Ala Asp Ala Val Phe
 405 410 415
 Ala Phe Gln Leu Arg Asn Pro Val His Asn Gly His Ala Leu Leu Met

| 420 | | | | | 425 | | | | | 430 | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Gln | Asp | Thr | His | Lys | Gln | Leu | Leu | Glu | Arg | Gly | Tyr | Arg | Arg | Pro | Val | |
| 435 | | | | | 440 | | | | | 445 | | | | | | |
| Leu | Leu | Leu | His | Pro | Leu | Gly | Gly | Trp | Thr | Lys | Asp | Asp | Asp | Val | Pro | |
| 450 | | | | | 455 | | | | | 460 | | | | | | |
| Leu | Met | Trp | Arg | Met | Lys | Gln | His | Ala | Ala | Val | Leu | Glu | Glu | Gly | Val | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | |
| Leu | Asn | Pro | Glu | Thr | Thr | Val | Val | Ala | Ile | Phe | Pro | Ser | Pro | Met | Met | |
| 485 | | | | | 490 | | | | | 495 | | | | | | |
| Tyr | Ala | Gly | Pro | Thr | Glu | Val | Gln | Trp | His | Cys | Arg | Ala | Arg | Met | Val | |
| 500 | | | | | 505 | | | | | 510 | | | | | | |
| Ala | Gly | Ala | Asn | Phe | Tyr | Ile | Val | Gly | Arg | Asp | Pro | Ala | Gly | Met | Pro | |
| 515 | | | | | 520 | | | | | 525 | | | | | | |
| His | Pro | Glu | Thr | Gly | Lys | Asp | Leu | Tyr | Glu | Pro | Ser | His | Gly | Ala | Lys | |
| 530 | | | | | 535 | | | | | 540 | | | | | | |
| Val | Leu | Thr | Met | Ala | Pro | Gly | Leu | Ile | Thr | Leu | Glu | Ile | Val | Pro | Phe | |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 | |
| Arg | Val | Ala | Ala | Tyr | Asn | Lys | Lys | Lys | Lys | Arg | Met | Asp | Tyr | Tyr | Asp | |
| 565 | | | | | 570 | | | | | 575 | | | | | | |
| Ser | Glu | His | His | Glu | Asp | Phe | Glu | Phe | Ile | Ser | Gly | Thr | Arg | Met | Arg | |
| 580 | | | | | 585 | | | | | 590 | | | | | | |
| Lys | Leu | Ala | Arg | Glu | Gly | Gln | Lys | Pro | Pro | Glu | Gly | Phe | Met | Ala | Pro | |
| 595 | | | | | 600 | | | | | 605 | | | | | | |
| Lys | Ala | Trp | Thr | Val | Leu | Thr | Glu | Tyr | Tyr | Lys | Ser | Leu | Glu | Lys | Ala | |
| 610 | | | | | 615 | | | | | 620 | | | | | | |

<210> 1385
 <211> 967
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (169)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (293)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (297)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (547)

<223> Xaa equals any amino acid

<400> 1385

Met Gln Arg Ala Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser
1 5 10 15

Asp Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro
20 25 30

Val Pro Thr Leu Leu Leu Leu Xaa Ala Ala Leu Leu Xaa Val Ser Asp
35 40 45

Ala Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu
50 55 60

Leu Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala
65 70 75 80

Phe Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu
85 90 95

Ala Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu
100 105 110

Thr Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr
115 120 125

Val Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly
130 135 140

Val Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro
145 150 155 160

Leu Pro Ala Ala Ser Glu Arg Leu Xaa Thr Ala Ala Pro Gly Glu Lys
165 170 175

Pro Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly
180 185 190

Asp Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr
195 200 205

Gly Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp
210 215 220

Glu Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly

| | | | | | | |
|---|-----|-----|-----|-----|--|-----|
| 225 | | 230 | | 235 | | 240 |
| Gln Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser | | | | | | |
| | 245 | | | 250 | | 255 |
| His Arg Tyr Val Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu | | | | | | |
| | 260 | | 265 | | | 270 |
| Phe His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val | | | | | | |
| | 275 | | 280 | | | 285 |
| Ala Ala Arg Leu Xaa Lys His Pro Xaa Ile Arg Asn Ser Val Ser Leu | | | | | | |
| | 290 | | 295 | | | 300 |
| Val Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu | | | | | | |
| 305 | | 310 | | 315 | | 320 |
| Val Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln | | | | | | |
| | 325 | | 330 | | | 335 |
| Lys Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr | | | | | | |
| | 340 | | 345 | | | 350 |
| Ala Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp | | | | | | |
| | 355 | | 360 | | | 365 |
| Thr Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser | | | | | | |
| | 370 | | 375 | | | 380 |
| Cys Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala | | | | | | |
| 385 | | 390 | | 395 | | 400 |
| His Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln | | | | | | |
| | 405 | | 410 | | | 415 |
| Cys Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser | | | | | | |
| | 420 | | 425 | | | 430 |
| Met Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Ala | | | | | | |
| | 435 | | 440 | | | 445 |
| Tyr Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met | | | | | | |
| | 450 | | 455 | | | 460 |
| Asp Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr | | | | | | |
| 465 | | 470 | | 475 | | 480 |
| Ser Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser | | | | | | |
| | 485 | | 490 | | | 495 |
| Lys His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr | | | | | | |
| | 500 | | 505 | | | 510 |
| Gly Thr Ser Gly Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp | | | | | | |
| | 515 | | 520 | | | 525 |
| Ala Asp Gly Thr Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys | | | | | | |
| | 530 | | 535 | | | 540 |
| Cys Val Xaa Lys Thr Asp Arg Lys His Phe Asp Thr Pro Phe His Gly | | | | | | |
| 545 | | 550 | | 555 | | 560 |

Ser Trp Gly Met Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly
 565 570 575
 Gly Gly Val Gln Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys
 580 585 590
 Asn Gly Gly Lys Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys
 595 600 605
 Asn Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu
 610 615 620
 Gln Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly
 625 630 635 640
 Pro Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp
 645 650 655
 Arg Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val
 660 665 670
 Leu Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr
 675 680 685
 Ser Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile
 690 695 700
 Ile Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn
 705 710 715 720
 Gly Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro
 725 730 735
 Gly Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu
 740 745 750
 Val Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu
 755 760 765
 Ala Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr
 770 775 780
 Leu Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg
 785 790 795 800
 Tyr Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro
 805 810 815
 Leu Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu
 820 825 830
 Arg Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser
 835 840 845
 Phe Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly
 850 855 860
 Glu Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu
 865 870 875 880

Cys Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val
 885 890 895
 Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp
 900 905 910
 Gln Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr
 915 920 925
 Lys Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser
 930 935 940
 His Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe
 945 950 955 960
 Cys Thr Met Ala Glu Cys Ser
 965

<210> 1386
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 1386
 Met Tyr Val Arg Phe Phe Phe Arg Leu His Ser Ile Ser Ser His Pro
 1 5 10 15
 Ser Gly Ile Val Ser Leu Cys Leu Leu Phe Glu Thr Leu Leu Gln Thr
 20 25 30
 Tyr Leu Pro Gln Leu Phe Tyr His Leu Arg Glu Ile Gly Ala Gln Pro
 35 40 45
 Leu Arg Ile Ser Phe Lys Trp Met Val Arg Ala Phe Ser Gly Tyr Leu
 50 55 60
 Ala Thr Asp Gln Leu Leu Leu Trp Asp Arg Ile Leu Gly Tyr Asn
 65 70 75 80
 Ser Leu Glu Ile Leu Ala Val Leu Ala Ala Ala Val Phe Ala Phe Arg
 85 90 95
 Ala Val Asn Leu Met Glu Val Thr Ser Leu Ala Ala Ala Glu Asn Leu
 100 105 110
 Ala Ala His Ser Glu Gln Phe Cys Thr Ala Pro Leu Phe Pro Glu Leu
 115 120 125
 Tyr Arg Val Gln Ile Pro Val Leu Leu Asn Ser Gly Arg Lys Lys Ser
 130 135 140
 Ala Val Tyr Trp Thr Pro Ile Ser Phe Asn Arg Thr Lys Lys Leu Arg
 145 150 155 160
 Leu Gln Gly Arg Thr Tyr Asn Asp Gly Ser Trp Asn Ile Thr
 165 170

<210> 1387
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any amino acid

<400> 1387
 Met Gln Pro Ala Trp Leu Trp Leu Trp Xaa Trp Glu Leu Gly Trp Glu
 1 5 10 15
 Leu Val Phe Gly Ala Ile Leu Leu Xaa Leu Gln Asp Gly Leu Phe Asp
 20 25 30
 Ser Val Leu Tyr Cys Xaa His Leu Tyr Ser Gly Leu Phe Phe Pro Trp
 35 40 45
 Ile Val Asn Ser Leu Met Ser Gly Ser Ser Gln Leu Met Ser
 50 55 60

<210> 1388
 <211> 600
 <212> PRT
 <213> Homo sapiens

<400> 1388
 Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Glu Leu Thr Met
 1 5 10 15
 Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
 20 25 30
 Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser
 35 40 45
 Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg
 50 55 60
 Ile Ile Phe Ser Tyr Val Gln Leu Asp Pro Asp Gly Ser Cys Glu Ser
 65 70 75 80
 Glu Asn Ile Lys Val Phe Asp Gly Thr Ser Ser Asn Gly Pro Leu Leu
 85 90 95
 Gly Gln Val Cys Ser Lys Asn Asp Tyr Val Pro Val Phe Glu Ser Ser
 100 105 110

Ser Ser Thr Leu Thr Phe Gln Ile Val Thr Asp Ser Ala Arg Ile Gln
 115 120 125
 Arg Thr Val Phe Val Phe Tyr Tyr Phe Phe Ser Pro Asn Ile Ser Ile
 130 135 140
 Pro Asn Cys Gly Gly Tyr Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser
 145 150 155 160
 Pro Asn Tyr Pro Lys Pro His Pro Glu Leu Ala Tyr Cys Val Trp His
 165 170 175
 Ile Gln Val Glu Lys Asp Tyr Lys Ile Lys Leu Asn Phe Lys Glu Ile
 180 185 190
 Phe Leu Glu Ile Asp Lys Gln Cys Lys Phe Asp Phe Leu Ala Ile Tyr
 195 200 205
 Asp Gly Pro Ser Thr Asn Ser Gly Leu Ile Gly Gln Val Cys Gly Arg
 210 215 220
 Val Thr Pro Thr Phe Glu Ser Ser Ser Asn Ser Leu Thr Val Val Leu
 225 230 235 240
 Ser Thr Asp Tyr Ala Asn Ser Tyr Arg Gly Phe Ser Ala Ser Tyr Thr
 245 250 255
 Ser Ile Tyr Ala Glu Asn Ile Asn Thr Thr Ser Leu Thr Cys Ser Ser
 260 265 270
 Asp Arg Met Arg Val Ile Ile Ser Lys Ser Tyr Leu Glu Ala Phe Asn
 275 280 285
 Ser Asn Gly Asn Asn Leu Gln Leu Lys Asp Pro Thr Cys Arg Pro Lys
 290 295 300
 Leu Ser Asn Val Val Glu Phe Ser Val Pro Leu Asn Gly Cys Gly Thr
 305 310 315 320
 Ile Arg Lys Val Glu Asp Gln Ser Ile Thr Tyr Thr Asn Ile Ile Thr
 325 330 335
 Phe Ser Ala Ser Ser Thr Ser Glu Val Ile Thr Arg Gln Lys Gln Leu
 340 345 350
 Gln Ile Ile Val Lys Cys Glu Met Gly His Asn Ser Thr Val Glu Ile
 355 360 365
 Ile Tyr Ile Thr Glu Asp Asp Val Ile Gln Ser Gln Asn Ala Leu Gly
 370 375 380
 Lys Tyr Asn Thr Ser Met Ala Leu Phe Glu Ser Asn Ser Phe Glu Lys
 385 390 395 400
 Thr Ile Leu Glu Ser Pro Tyr Tyr Val Asp Leu Asn Gln Thr Leu Phe
 405 410 415
 Val Gln Val Ser Leu His Thr Ser Asp Pro Asn Leu Val Val Phe Leu
 420 425 430

Asp Thr Cys Arg Ala Ser Pro Thr Ser Asp Phe Ala Ser Pro Thr Tyr
 435 440 445
 Asp Leu Ile Lys Ser Gly Cys Ser Arg Asp Glu Thr Cys Lys Val Tyr
 450 455 460
 Pro Leu Phe Gly His Tyr Gly Arg Phe Gln Phe Asn Ala Phe Lys Phe
 465 470 475 480
 Leu Arg Ser Met Ser Ser Val Tyr Leu Gln Cys Lys Val Leu Ile Cys
 485 490 495
 Asp Ser Ser Asp His Gln Ser Arg Cys Asn Gln Gly Cys Val Ser Arg
 500 505 510
 Ser Lys Arg Asp Ile Ser Ser Tyr Lys Trp Lys Thr Asp Ser Ile Ile
 515 520 525
 Gly Pro Ile Arg Leu Lys Arg Asp Arg Ser Ala Ser Gly Asn Ser Gly
 530 535 540
 Phe Gln His Glu Thr His Ala Glu Glu Thr Pro Asn Gln Pro Phe Asn
 545 550 555 560
 Ser Val His Leu Phe Ser Phe Met Val Leu Ala Leu Asn Val Val Thr
 565 570 575
 Val Ala Thr Ile Thr Val Arg His Phe Val Asn Gln Arg Ala Asp Tyr
 580 585 590
 Lys Tyr Gln Lys Leu Gln Asn Tyr
 595 600

<210> 1389
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1389
 Met His Pro Ala Arg Lys Leu Leu Ser Leu Leu Phe Leu Ile Leu Met
 1 5 10 15
 Gly Thr Glu Leu Thr Gln Asp Ser Ala Ala Pro Asp Ser Leu Leu Arg
 20 25 30
 Ser Ser Lys Gly Ser Thr Arg Gly Ser Leu Ala Ala Ile Val Ile Trp
 35 40 45
 Arg Gly Lys Ser Glu Ser Arg Ile Ala Lys Thr Pro Gly Ile Phe Arg
 50 55 60
 Gly Gly Gly Thr Leu Val Leu Pro Pro Thr His Thr Pro Glu Trp Leu
 65 70 75 80
 Ile Leu Pro Leu Gly Ile Thr Leu Pro Leu Gly Ala Pro Glu Thr Gly
 85 90 95
 Gly Gly Asp Cys Ala Ala Glu Thr Trp Lys Gly Ser Gln Arg Ala Gly
 100 105 110

Gln Leu Cys Ala Leu Leu Ala
115

<210> 1390
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1390
Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val
1 5 10 15
Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp Ile His
20 25 30
Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu
35 40 45
Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr
50 55 60
Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr
65 70 75 80
Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys
85 90 95
Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His
100 105 110
Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu
115 120 125
Tyr Ile His
130

<210> 1391
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1391
Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser
1 5 10 15
Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe
20 25 30
Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly
35 40 45
Leu

<210> 1392
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1392
 Met Ser Ile Met Leu Leu Thr Phe Thr Leu His Phe Pro Ser Thr Leu
 1 5 10 15
 Leu Ser Tyr Leu Pro Glu Asn Tyr Val Ile Pro Ser Leu Phe Ser Asn
 20 25 30
 Leu Gln His Trp Ile Cys Cys Val His Ser Gln Leu Val Thr Cys Phe
 35 40 45
 Val Phe Gln Arg Asp Asn Val Ser Thr Glu Lys Arg Thr Leu Ala His
 50 55 60
 Ser Asn Thr Ser Ser Ala Thr Ser His His Leu Ser Pro Cys Thr Thr
 65 70 75 80
 Gly Asp Gly Leu Pro Ser Ser Trp Gly Gly Gln Thr His Pro Leu Leu
 85 90 95
 His

<210> 1393
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 1393
 Met Ser Leu Ala Leu Cys Leu Val Pro Leu Val Arg Glu Gly His
 1 5 10 15

<210> 1394
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1394
 Met Pro Phe Ile Leu Leu Leu Val Cys Leu Thr Ser Leu Pro Ser Arg
 1 5 10 15
 Gly Tyr Asn Glu Lys Lys Leu Thr Asp Asn Ile Gln Cys Glu Ile Phe
 20 25 30
 Gln Val Leu Tyr Glu Glu Ala Thr Ala Ser Tyr Lys Glu Glu Ile Val
 35 40 45
 His Gln Leu Pro Ser Asn Lys Pro Glu Glu Leu Glu Asn Asn Val Asp
 50 55 60
 Gln Ile Leu Lys Trp Ile Glu Gln Trp Ile Lys Asp His Asn Ser
 65 70 75

<210> 1395

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1395

Met Trp Gly Pro Phe Cys Pro Phe Leu Phe Leu Phe Ser Arg Leu Ser
 1 5 10 15

Asn Ser Leu Thr Lys Asp Ser Met Asn Ile Lys Ala His Ile His Met
 20 25 30

Leu Leu Glu Val Arg Ala Ala His Pro Thr Thr Arg Leu Cys Val
 35 40 45

<210> 1396

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1396

Met Leu Leu Arg His Pro Leu Pro Val Cys Phe Cys Phe Ser Phe Cys
 1 5 10 15

Pro Phe Pro Val Ser Ala Leu Ser Leu Leu Pro Ile Gly Leu Val Arg
 20 25 30

Glu Gly Ala Ala Ser Pro Thr Gln Gln Leu Arg Leu Gln Arg Glu Ser
 35 40 45

Leu Ser Ser Ile Thr His Arg Val Asn Ile Lys Glu Gly His
 50 55 60

<210> 1397

<211> 211

<212> PRT

<213> Homo sapiens

<400> 1397

Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys
 1 5 10 15

Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
 20 25 30

Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
 35 40 45

Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
 50 55 60

Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
 65 70 75 80

Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Asp Ala Gly Arg
 85 90 95
 Val Leu Glu Gly Ile Ser Lys Ser Ile Ser Tyr Asp Leu Asp Gly Glu
 100 105 110
 Glu Ser Tyr Gly Lys Tyr Leu Arg Arg Glu Ser His Gln Ile Gly Asp
 115 120 125
 Ala Tyr Ser Asn Ser Asp Lys Ser Leu Thr Glu Leu Glu Ser Lys Phe
 130 135 140
 Lys Gln Gly Gln Glu Gln Asp Ser Arg Gln Glu Ser Arg Leu Asn Glu
 145 150 155 160
 Asp Phe Leu Gly Met Leu Val His Thr Arg Ser Leu Leu Lys Glu Thr
 165 170 175
 Leu Asp Ile Ser Val Gly Leu Arg Asp Lys Tyr Glu Leu Leu Ala Leu
 180 185 190
 Thr Ile Arg Ser His Gly Thr Arg Leu Gly Arg Leu Lys Asn Asp Tyr
 195 200 205
 Leu Lys Val
 210

<210> 1398
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1398
 Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu
 1 5 10 15
 Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu
 20 25 30
 Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn
 35 40 45
 Glu Ala Gly
 50

<210> 1399
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1399
 Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
 1 5 10 15
 Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
 20 25 30

Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
 35 40 45

<210> 1400

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1400

Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
 1 5 10 15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
 20 25 30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
 35 40 45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile
 50 55 60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn
 65 70 75 80

<210> 1401

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1401

Met Cys Trp Lys Pro Lys Cys Ile Leu Leu Leu Ser Phe Val Phe Gln
 1 5 10 15

Cys Val Ala Ser Ser Thr Phe Asp Pro Leu Gly Ser Glu Arg Pro Trp
 20 25 30

Ser Gln Pro Gln Cys Pro Ile Ser Phe Pro Leu Leu Ile Thr Gly Cys
 35 40 45

Cys Trp Phe Ser Met Ser Arg Val Ser
 50 55

<210> 1402

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1402

Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val

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      1             5             10             15
Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
      20             25             30
Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
      35             40             45
Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
      50             55             60
Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
      65             70             75             80
Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
      85             90             95
Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
      100            105            110
Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
      115            120            125
Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro
      130            135            140
Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
      145            150            155            160
Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro
      165            170

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<210> 1403
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any amino acid

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<400> 1403
Met Ile Gly Leu Thr Ile Ile Ala Cys Phe Ala Val Ile Val Ser Ala
  1             5             10             15
Lys Arg Ala Val Glu Arg His Glu Ser Leu Thr Ser Trp Asn Leu Ala
      20             25             30
Lys Lys Ala Lys Xaa Arg Glu Glu Ala Ala Leu Ala Ala Gln Ala Lys
      35             40             45
Ala Asn Asp Ile Leu Ser Asp Lys Val Phe Thr
      50             55

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<210> 1404
 <211> 44

<212> PRT

<213> Homo sapiens

<400> 1404

Met Ser Tyr Ser Leu Phe Leu Ala Leu Leu Ser Phe Ala Ser Ala Ile
 1 5 10 15

Leu Phe Val Ala Gly Thr Ile Ala Gly Thr Gly Gly Leu Ser Phe His
 20 25 30

Gly Ile Ala Thr Ile Phe Val Leu Thr Gly Lys Trp
 35 40

<210> 1405

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1405

Met Cys Phe Pro Ala Cys Leu Cys Ser Pro Leu Thr Cys Leu Leu Ser
 1 5 10 15

Val Trp Lys Pro Gly Leu Ala His Ala Val Val His Cys Met Leu Glu
 20 25 30

Pro Val Glu Phe Ala Arg Val Val Gln Tyr Glu Ala Gly His Val Leu
 35 40 45

<210> 1406

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1406

Met Asn Ser Leu Phe Trp Met Ile Leu Leu Pro Val Ser Gln Asp Gln
 1 5 10 15

Val Val Glu Gly Leu Gln Gly Gly Phe Ser Gln Ile His Met Arg Ile
 20 25 30

Leu Arg Lys His Leu
 35

<210> 1407

<211> 387

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (228)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (359)

<223> Xaa equals any amino acid

<400> 1407

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Met Gly Ala Phe Leu Asp Lys Pro Lys Thr Glu Lys His Asn Ala His
 1           5           10          15

Gly Ala Gly Asn Gly Leu Arg Tyr Gly Leu Ser Ser Met Gln Gly Trp
          20           25          30

Arg Val Glu Met Glu Asp Ala His Thr Ala Val Val Gly Ile Pro His
      35           40           45

Gly Leu Glu Asp Trp Ser Phe Phe Ala Val Tyr Asp Gly His Ala Gly
 50           55           60

Ser Arg Val Ala Asn Tyr Cys Ser Thr His Leu Leu Glu His Ile Thr
 65           70           75          80

Thr Asn Glu Asp Phe Arg Ala Ala Gly Lys Ser Gly Ser Ala Leu Glu
      85           90           95

Leu Ser Val Glu Asn Val Lys Asn Gly Ile Arg Thr Gly Phe Leu Lys
      100          105          110

Ile Asp Glu Tyr Met Arg Asn Phe Ser Asp Leu Arg Asn Gly Met Asp
      115          120          125

Arg Ser Gly Ser Thr Ala Val Gly Val Met Ile Ser Pro Lys His Ile
      130          135          140

Tyr Phe Ile Asn Cys Gly Asp Ser Arg Ala Val Leu Tyr Arg Asn Gly
      145          150          155          160

Gln Val Cys Phe Ser Thr Gln Asp His Lys Pro Cys Asn Pro Arg Glu
      165          170          175

Lys Glu Arg Ile Gln Asn Ala Gly Gly Ser Val Met Ile Gln Arg Val
      180          185          190

Asn Gly Ser Leu Ala Val Ser Arg Ala Leu Gly Asp Tyr Asp Tyr Lys
      195          200          205

Cys Val Asp Gly Lys Gly Pro Thr Glu Gln Leu Val Ser Pro Glu Pro
      210          215          220

Glu Val Tyr Xaa Ile Leu Arg Ala Glu Glu Asp Glu Phe Ile Ile Leu
      225          230          235          240

Ala Cys Asp Gly Ile Trp Asp Val Met Ser Asn Glu Glu Leu Cys Glu
      245          250          255

Tyr Val Lys Ser Arg Leu Glu Val Ser Asp Asp Leu Glu Asn Val Cys
      260          265          270

Asn Trp Val Val Asp Thr Cys Leu His Lys Gly Ser Arg Asp Asn Met
      275          280          285

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Ser Ile Val Leu Val Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu
 290 295 300
 Ala Val Lys Lys Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val
 305 310 315 320
 Glu Glu Ile Met Glu Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala
 325 330 335
 His Val Met Arg Ile Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro
 340 345 350
 Gly Gly Gly Leu Ala Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser
 355 360 365
 Arg Leu Asn Pro His Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu
 370 375 380
 Asp Pro Trp
 385

<210> 1408
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 1408
 Met Met Asn Phe Gln Pro Pro Ser Lys Ala Trp Arg Ala Ser Gln Met
 1 5 10 15
 Met Thr Phe Phe Ile Phe Leu Leu Phe Phe Pro Ser Phe Thr Gly Val
 20 25 30
 Leu Cys Thr Leu Ala Ile Thr Ile Trp Arg Leu Lys Pro Ser Ala Asp
 35 40 45
 Cys Gly Pro Phe Arg Gly Leu Pro Leu Phe Ile His Ser Ile Tyr Ser
 50 55 60
 Trp Ile Asp Thr Leu Ser Thr Arg Pro Gly Tyr Leu Trp Val Val Trp
 65 70 75 80
 Ile Tyr Arg Asn Leu Ile Gly Ser Val His Phe Phe Phe Ile Leu Thr
 85 90 95
 Leu Ile Val Leu Ile Ile Thr Tyr Leu Tyr Trp Gln Ile Thr Glu Gly
 100 105 110
 Arg Lys Ile Met Ile Arg Leu Leu His Glu Gln Ile Ile Asn Glu Gly
 115 120 125
 Lys Asp Lys Met Phe Leu Ile Glu Lys Leu Ile Lys Leu Gln Asp Met
 130 135 140
 Glu Lys Lys Ala Asn Pro Ser Ser Leu Val Leu Glu Arg Arg Glu Val
 145 150 155 160
 Glu Gln Gln Gly Phe Leu His Leu Gly Glu His Asp Gly Ser Leu Asp

165 170 175
 Leu Arg Ser Arg Arg Ser Val Gln Glu Gly Asn Pro Arg Ala
 180 185 190

<210> 1409
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1409
 Met Gly Val Gly Val Leu Arg Ile Leu Leu Ser Cys Leu Gly Glu Ala
 1 5 10 15
 Ala Pro Lys Ser Ala Gly Thr Ser Leu Glu Ser Ala Lys Glu Cys Trp
 20 25 30
 Ser Ala Ala Thr Leu Leu Val Leu Cys Val Leu Cys Gln Leu Gln His
 35 40 45
 Gly

<210> 1410
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1410
 Met Glu Ser Leu Pro Glu Asn Lys Pro Leu Val Trp Ser Leu Ala Val
 1 5 10 15
 Ser Leu Leu Ala Ile Ile Gly Leu Leu Leu Gly Ser Ser Pro Asp Phe
 20 25 30
 Asn Ser Gln Phe Gly Leu Val Asp Ile Pro Val Glu Phe Lys Leu Val
 35 40 45
 Ile Ala Gln Val Leu Leu Leu Asp Phe Cys Leu Ala Leu Leu Ala Asp
 50 55 60
 Arg Val Leu Gln Phe Phe Leu Gly Thr Pro Lys Leu Lys Val Pro Ser
 65 70 75 80

<210> 1411
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1411
 Met His Leu Leu Leu Ile Asn Phe Leu Pro Ala Val Cys Ile Ile Leu
 1 5 10 15

Leu Lys Asn Leu Gln Gln Ala Leu Cys Phe Ala Gln Leu Phe Ile Met
 20 25 30

Ser Ile Asn Gln Gly Leu Gly Pro Asn Glu Met Ser
 35 40

<210> 1412

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1412

Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
 1 5 10 15

Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
 20 25 30

Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
 35 40 45

Gln Tyr Phe Pro
 50

<210> 1413

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1413

Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
 1 5 10 15

Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
 20 25 30

Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu
 35 40 45

Phe Leu Leu Cys Val Trp
 50

<210> 1414

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1414

Met Ile Asn Glu Trp Cys Phe Lys Leu Leu Ser Leu Trp Ser Phe Ala
 1 5 10 15

Tyr Ser Asn Cys Lys Leu Ile His Lys Cys Lys Phe Val Phe Leu Lys
 20 25 30

Lys Lys Lys Thr Gly Lys Glu Val Ser Val Lys Gly Ser Lys Leu
 35 40 45

<210> 1415
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1415
 Met Leu Leu Leu Leu Ile Phe Trp Ile Ala Pro Ala His Gly Pro Thr
 1 5 10 15
 Asn Ile Met Val Tyr Ile Ser Ile Cys Ser Leu Leu Gly Ser Phe Thr
 20 25 30
 Val Pro Ser Thr Lys Gly Ile Gly Leu Ala Ala Gln Asp Ile Leu His
 35 40 45
 Asn Asn Pro Ser Ser Gln Arg Ala Leu Cys Leu Cys Leu Val Leu Leu
 50 55 60
 Ala Val Leu Gly Cys Ser Ile Ile Val Gln Phe Arg Tyr Ile Asn Lys
 65 70 75 80
 Ala Leu Glu Cys Phe Asp Ser Ser Val Phe Gly Ala Ile Tyr Tyr Val
 85 90 95
 Val Phe Thr Thr Leu Val Leu Leu Ala Ser Ala Ile Leu Phe Arg Glu
 100 105 110
 Trp Ser Asn Val Gly Leu Val Asp Phe Leu Gly Met Ala Cys Gly Phe
 115 120 125
 Thr Thr Val Ser Val Gly Ile Val Leu Ile Gln Val Phe Lys Glu Phe
 130 135 140
 Asn Phe Asn Leu Gly Glu Met Asn Lys Ser Asn Met Lys Thr Asp
 145 150 155

<210> 1416
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1416
 Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu
 1 5 10 15
 Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro
 20 25 30
 Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg
 35 40 45
 Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Arg Leu Leu Gly Gln
 50 55 60

Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro
 65 70 75 80
 Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly
 85 90 95
 Leu Ala Arg Trp Met Val
 100

<210> 1417
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any amino acid

<400> 1417
 Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser
 1 5 10 15
 Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
 20 25 30
 Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln
 35 40 45
 Arg Arg Ser His Cys
 50

<210> 1418
 <211> 575
 <212> PRT
 <213> Homo sapiens

<400> 1418
 Met Arg Val Leu Val Val Thr Ile Ala Pro Ile Tyr Trp Ala Leu Ala
 1 5 10 15
 Arg Glu Ser Gly Glu Ala Leu Asn Gly His Ser Leu Thr Gly Gly Arg
 20 25 30
 Phe Arg Gln Glu Ser His Val Glu Phe Ala Thr Gly Glu Leu Leu Thr
 35 40 45
 Met Thr Gln Val Ala Arg Gly Leu Asp Pro Asp Gly Leu Leu Leu Leu
 50 55 60
 Asp Val Val Val Asn Gly Val Val Pro Glu Ser Leu Ala Asp Ala Asp
 65 70 75 80
 Leu Gln Val Gln Asp Phe Glu Glu His Tyr Val Gln Thr Gly Pro Gly
 85 90 95
 Gln Leu Phe Val Gly Ser Thr Gln Arg Phe Phe Gln Gly Gly Leu Pro

| 100 | | | | | | | | | | 105 | | | | | | | | | | 110 | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|
| Ser | Phe | Leu | Arg | Cys | Asn | His | Ser | Ile | Gln | Tyr | Asn | Ala | Ala | Arg | Gly | | | | | | | | | | | | | | | |
| | | 115 | | | | | | 120 | | | | | 125 | | | | | | | | | | | | | | | | | |
| Pro | Gln | Pro | Gln | Leu | Val | Gln | His | Leu | Arg | Ala | Ser | Ala | Ile | Ser | Ser | | | | | | | | | | | | | | | |
| | | 130 | | | | | 135 | | | | | 140 | | | | | | | | | | | | | | | | | | |
| Ala | Phe | Asp | Pro | Glu | Ala | Glu | Ala | Leu | Arg | Phe | Gln | Leu | Ala | Thr | Ala | | | | | | | | | | | | | | | |
| | | 145 | | | | 150 | | | | 155 | | | | | 160 | | | | | | | | | | | | | | | |
| Leu | Gln | Ala | Glu | Glu | Asn | Glu | Val | Gly | Cys | Pro | Glu | Gly | Phe | Glu | Leu | | | | | | | | | | | | | | | |
| | | | | 165 | | | | | 170 | | | | | | 175 | | | | | | | | | | | | | | | |
| Asp | Ser | Gln | Gly | Ala | Phe | Cys | Val | Asp | Val | Asp | Glu | Cys | Ala | Trp | Asp | | | | | | | | | | | | | | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | | | | | | | | | | | | | | |
| Ala | His | Leu | Cys | Arg | Glu | Gly | Gln | Arg | Cys | Val | Asn | Leu | Leu | Gly | Ser | | | | | | | | | | | | | | | |
| | | 195 | | | | | 200 | | | | | 205 | | | | | | | | | | | | | | | | | | |
| Tyr | Arg | Cys | Leu | Pro | Asp | Cys | Gly | Pro | Gly | Phe | Arg | Val | Ala | Asp | Gly | | | | | | | | | | | | | | | |
| | | 210 | | | | 215 | | | | | 220 | | | | | | | | | | | | | | | | | | | |
| Ala | Gly | Cys | Glu | Asp | Val | Asp | Glu | Cys | Leu | Glu | Gly | Leu | Asp | Asp | Cys | | | | | | | | | | | | | | | |
| | | 225 | | | | 230 | | | | 235 | | | | | 240 | | | | | | | | | | | | | | | |
| His | Tyr | Asn | Gln | Leu | Cys | Glu | Asn | Thr | Pro | Gly | Gly | His | Arg | Cys | Ser | | | | | | | | | | | | | | | |
| | | | 245 | | | | | 250 | | | | | | 255 | | | | | | | | | | | | | | | | |
| Cys | Pro | Arg | Gly | Tyr | Arg | Met | Gln | Gly | Pro | Ser | Leu | Pro | Cys | Leu | Asp | | | | | | | | | | | | | | | |
| | | | 260 | | | | | 265 | | | | | 270 | | | | | | | | | | | | | | | | | |
| Val | Asn | Glu | Cys | Leu | Gln | Leu | Pro | Lys | Ala | Cys | Ala | Tyr | Gln | Cys | His | | | | | | | | | | | | | | | |
| | | 275 | | | | | 280 | | | | | 285 | | | | | | | | | | | | | | | | | | |
| Asn | Leu | Gln | Gly | Ser | Tyr | Arg | Cys | Leu | Cys | Pro | Pro | Gly | Gln | Thr | Leu | | | | | | | | | | | | | | | |
| | | 290 | | | | 295 | | | | | 300 | | | | | | | | | | | | | | | | | | | |
| Leu | Arg | Asp | Gly | Lys | Ala | Cys | Thr | Ser | Leu | Glu | Arg | Asn | Gly | Gln | Asn | | | | | | | | | | | | | | | |
| | | 305 | | | 310 | | | | | 315 | | | | | 320 | | | | | | | | | | | | | | | |
| Val | Thr | Thr | Val | Ser | His | Arg | Gly | Pro | Leu | Leu | Pro | Trp | Leu | Arg | Pro | | | | | | | | | | | | | | | |
| | | | 325 | | | | | | 330 | | | | | 335 | | | | | | | | | | | | | | | | |
| Trp | Ala | Ser | Ile | Pro | Gly | Thr | Ser | Tyr | His | Ala | Trp | Val | Ser | Leu | Arg | | | | | | | | | | | | | | | |
| | | 340 | | | | | 345 | | | | | 350 | | | | | | | | | | | | | | | | | | |
| Pro | Gly | Pro | Met | Ala | Leu | Ser | Ser | Val | Gly | Arg | Ala | Trp | Cys | Pro | Pro | | | | | | | | | | | | | | | |
| | | 355 | | | | | 360 | | | | | 365 | | | | | | | | | | | | | | | | | | |
| Gly | Phe | Ile | Arg | Gln | Asn | Gly | Val | Cys | Thr | Asp | Leu | Asp | Glu | Cys | Arg | | | | | | | | | | | | | | | |
| | | 370 | | | | 375 | | | | | 380 | | | | | | | | | | | | | | | | | | | |
| Val | Arg | Asn | Leu | Cys | Gln | His | Ala | Cys | Arg | Asn | Thr | Glu | Gly | Ser | Tyr | | | | | | | | | | | | | | | |
| | | 385 | | | | 390 | | | | 395 | | | | | 400 | | | | | | | | | | | | | | | |
| Gln | Cys | Leu | Cys | Pro | Ala | Gly | Tyr | Arg | Leu | Leu | Pro | Ser | Gly | Lys | Asn | | | | | | | | | | | | | | | |
| | | | 405 | | | | | | 410 | | | | | 415 | | | | | | | | | | | | | | | | |
| Cys | Gln | Asp | Ile | Asn | Glu | Cys | Glu | Glu | Glu | Ser | Ile | Glu | Cys | Gly | Pro | | | | | | | | | | | | | | | |

420 425 430
 Gly Gln Met Cys Phe Asn Thr Arg Gly Ser Tyr Gln Cys Val Asp Thr
 435 440 445
 Pro Cys Pro Ala Thr Tyr Arg Gln Gly Pro Ser Pro Gly Thr Cys Phe
 450 455 460
 Arg Arg Cys Ser Gln Asp Cys Gly Thr Gly Gly Pro Ser Thr Leu Gln
 465 470 475 480
 Tyr Arg Leu Leu Pro Leu Pro Leu Gly Val Arg Ala His His Asp Val
 485 490 495
 Ala Arg Leu Thr Ala Phe Ser Glu Val Gly Val Pro Ala Asn Arg Thr
 500 505 510
 Glu Leu Ser Met Leu Glu Pro Asp Pro Arg Ser Pro Phe Ala Leu Arg
 515 520 525
 Pro Leu Arg Ala Gly Leu Gly Ala Val Tyr Thr Arg Arg Ala Leu Thr
 530 535 540
 Arg Ala Gly Leu Tyr Arg Leu Thr Val Arg Ala Ala Ala Pro Arg His
 545 550 555 560
 Gln Ser Val Phe Val Leu Leu Ile Ala Val Ser Pro Tyr Pro Tyr
 565 570 575

<210> 1419

<211> 276

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (103)

<223> Xaa equals any amino acid

<400> 1419

Met Ile His Val Asn Arg Asn Ile Met Asp Phe Lys Leu Phe Leu Val
 1 5 10 15

Phe Val Ala Gly Val Phe Leu Phe Phe Tyr Ala Arg Thr Leu Glu Ser
 20 25 30

Lys Pro Tyr Phe Leu Leu Leu Leu Gly Asn Cys Ala Arg Cys Ser Asn
 35 40 45

Asp Ile Val Phe Val Leu Leu Leu Val Lys Arg Phe Ile Arg Ser Ile
 50 55 60

Ala Pro Phe Gly Ala Leu Met Val Gly Cys Trp Phe Ala Ser Val Tyr
 65 70 75 80

Ile Val Cys Gln Leu Met Glu Asp Leu Lys Trp Leu Trp Xaa Glu Asn
 85 90 95
 Arg Ile Tyr Val Ser Gly Xaa Val Leu Ile Val Gly Phe Phe Ser Phe
 100 105 110
 Val Val Cys Tyr Lys His Gly Pro Leu Ala His Asp Arg Ser Arg Ser
 115 120 125
 Leu Leu Met Trp Met Leu Arg Leu Leu Ser Leu Val Leu Val Tyr Ala
 130 135 140
 Gly Val Ala Val Pro Gln Phe Ala Tyr Ala Ala Ile Ile Leu Leu Met
 145 150 155 160
 Ser Ser Trp Ser Leu His Tyr Pro Leu Arg Ala Cys Ser Tyr Met Arg
 165 170 175
 Trp Lys Met Glu Gln Trp Phe Thr Ser Lys Glu Leu Val Val Lys Tyr
 180 185 190
 Leu Thr Glu Asp Glu Tyr Arg Glu Gln Ala Asp Ala Glu Thr Asn Ser
 195 200 205
 Ala Leu Glu Glu Leu Arg Arg Ala Cys Arg Lys Pro Asp Phe Pro Ser
 210 215 220
 Trp Leu Val Val Ser Arg Leu His Thr Pro Ser Lys Phe Ala Asp Phe
 225 230 235 240
 Val Leu Gly Gly Ser His Leu Ser Pro Glu Glu Ile Ser Leu His Glu
 245 250 255
 Glu Gln Tyr Gly Leu Gly Gly Ala Phe Leu Glu Glu Gln Leu Phe Asn
 260 265 270
 Pro Ser Thr Ala
 275

<210> 1420
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1420
 Met Lys Lys Val Cys Trp Val Trp Ala Leu Ala His Leu Val Leu Cys
 1 5 10 15
 Glu Arg Trp Leu Thr Ala Gly Cys Leu Leu Tyr Val Gly Val Ile Gln
 20 25 30
 Pro Cys Lys Gly Ser Pro Ser Ser Val Cys Lys Ala Arg Arg Cys Leu
 35 40 45
 His Pro Lys Tyr Arg Ile Lys Arg Tyr Gly Tyr Tyr Lys Tyr Ser Val
 50 55 60
 Arg Leu Ile Ile Cys His His His Pro His Ala Leu Lys Ala Glu Leu

65

70

75

80

Thr Asp Asp

<210> 1421

<211> 192

<212> PRT

<213> Homo sapiens

<400> 1421

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Met Glu Ala Leu Leu Gln Ser Leu Val Ile Val Leu Leu Gly Phe Lys
 1           5           10           15

Ser Phe Leu Ser Glu Glu Leu Gly Ser Glu Val Leu Asn Leu Leu Thr
      20           25           30

Asn Lys Gln Tyr Glu Leu Leu Ser Lys Asn Leu Arg Lys Thr Arg Glu
      35           40           45

Leu Phe Val His Gly Leu Pro Gly Ser Gly Lys Thr Ile Leu Ala Leu
      50           55           60

Arg Ile Met Glu Lys Ile Arg Asn Val Phe His Cys Glu Pro Ala Asn
      65           70           75           80

Ile Leu Tyr Ile Cys Glu Asn Gln Pro Leu Lys Lys Leu Val Ser Phe
      85           90           95

Ser Lys Lys Asn Ile Cys Gln Pro Val Thr Arg Lys Thr Phe Met Lys
      100          105          110

Asn Asn Phe Glu His Ile Gln His Ile Ile Ile Asp Asp Ala Gln Asn
      115          120          125

Phe Arg Thr Glu Asp Gly Asp Trp Tyr Gly Lys Ala Lys Phe Ile Thr
      130          135          140

Gln Thr Ala Arg Asp Gly Pro Gly Val Leu Trp Ile Phe Leu Asp Tyr
      145          150          155          160

Phe Gln Thr Tyr His Leu Ser Cys Ser Ala Ser Pro Leu Pro Gln Thr
      165          170          175

Ser Ile Gln Glu Lys Arg Ser Thr Glu Trp Ser Ala Met Gln Val Gln
      180          185          190

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<210> 1422

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1422

Met Ile Ile Ser Ser Ile Arg Cys Leu Val Leu Gly Ile Glu Cys Val

1 5 10 15
 Ser Ala Val Cys Gln Asn Leu Leu Leu Gly Glu Phe Pro His Trp Glu
 20 25 30
 Arg Asp Pro Gly Asn Gly Met Val Leu Glu Gly Leu Leu Asn Thr Phe
 35 40 45
 Pro Trp Glu Gly Ser Cys Tyr Leu Gln Gly
 50 55

<210> 1423
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1423
 Met Lys Ile Leu Ile Leu Phe Ile Phe Ile Pro Gly Leu Leu Val Glu
 1 5 10 15
 Lys Asn Gly Pro Asp His Val Cys Val Cys Met Cys Val Arg Val Cys
 20 25 30
 Val Cys Ala His Leu Gly Leu Phe Ile
 35 40

<210> 1424
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1424
 Met Trp Asp Thr Phe Val Arg Asp Arg Asp Phe Ser Ala Tyr Leu Phe
 1 5 10 15
 Leu His Leu Leu Pro Pro Leu Ser Ala Cys Gly Leu Asn Cys Gln Pro
 20 25 30
 Leu His Leu Leu Pro His Cys Leu Gly Ser Ser Tyr Gln Ser Ser Arg
 35 40 45
 Leu Ala Ser Gly Met Pro Leu Leu Gly Ile His Pro Leu Thr Gly Gln
 50 55 60
 Asp Met Thr His Gly Cys Ile Leu Ile Ala Leu His Leu Phe Leu Leu
 65 70 75 80
 Ser Pro His

<210> 1425
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1425

Met Val Arg Ser Ser Ser His Phe Lys Phe Phe Leu Met Leu Phe Thr
 1 5 10 15

Ser Thr Leu Gln Asp Val Gly His Thr Ser His Pro Ser Ala Gln Pro
 20 25 30

Ser Ser Arg Leu Ser Asp Ser Pro Leu Ile Cys Leu Ile Asn Arg Gln
 35 40 45

Val

<210> 1426

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (96)

<223> Xaa equals any amino acid

<400> 1426

Met Phe Val Ala Val Phe Tyr Trp Val Leu Thr Val Phe Phe Leu Ile
 1 5 10 15

Ile Tyr Ile Thr Met Thr Tyr Thr Arg Ile Pro Gln Val Pro Trp Thr
 20 25 30

Thr Val Gly Leu Cys Phe Asn Gly Ser Ala Phe Val Leu Tyr Leu Ser
 35 40 45

Ala Ala Val Val Asp Ala Ser Ser Val Ser Pro Glu Lys Asp Ser His
 50 55 60

Asn Phe Asn Ser Trp Ala Ala Ser Ser Phe Phe Ala Phe Leu Val Thr
 65 70 75 80

Ile Cys Tyr Ala Gly Asn Thr Tyr Phe Ser Phe Xaa Ala Trp Arg Xaa
 85 90 95

Arg Thr Ile Gln
 100

<210> 1427

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1427

Met Leu Pro Val Cys Val Phe Lys Leu Leu Leu Tyr Leu Tyr Val Leu

1 5 10 15
 Ile Arg Ile Cys Thr Ile Ile Trp Cys Phe Lys Val Tyr Ile Asn Ala
 20 25 30
 Val Ile Leu Asn Lys Ser Ser Arg
 35 40

<210> 1428
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1428
 Met Gly Cys Leu Val Trp Gly Pro Ser Trp Pro Pro Leu Ser Leu Leu
 1 5 10 15
 Ala Ser Leu Leu His Ser Gly Ile Ala Gly Arg Cys Leu Leu Cys Leu
 20 25 30
 Phe Lys Gly Leu Ala Ala Ala Ala Ser Leu Gln Ile Arg Asp Leu Ala
 35 40 45
 Ser Arg Leu Thr Thr Gly Pro Arg Thr Cys Arg Val Gln Pro Pro Pro
 50 55 60
 His Pro Gln Ser Ser Pro Pro Trp Pro Gly Pro Pro Gly Ala Glu Thr
 65 70 75 80
 Cys Arg Pro Leu Ser Arg Thr Val Gly Gly Val Cys Pro Ser Asp Trp
 85 90 95
 Pro Val Ser Trp Leu Leu Leu Pro Pro Leu Pro Glu Val Val Thr Cys
 100 105 110
 Ser Cys Pro Arg Ile Lys Ala Arg Pro Glu Arg Thr Pro Glu Leu Leu
 115 120 125
 Cys Ala Trp Gly Gly Arg Gly Lys His Ser Gln Leu Val Ala
 130 135 140

<210> 1429
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1429
 Met Val Tyr Arg Ala Phe Leu Ile Ile Ile Leu Arg Phe Ile Leu Ile
 1 5 10 15
 Phe Leu Phe Lys Leu Asn Tyr Ser Lys Leu Cys Pro Glu Ile Pro Phe
 20 25 30
 Gly Leu Lys Phe Phe Ser Phe Val Cys Ile Lys Val Gln Ile Lys Lys
 35 40 45
 Thr Ser Arg Lys Arg Arg Pro Tyr Leu

50

55

<210> 1430

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1430

Met Thr Asn Val Tyr Ser Leu Asp Gly Ile Leu Val Phe Gly Leu Leu
 1 5 10 15

Phe Val Cys Thr Cys Ala Tyr Phe Lys Lys Val Pro Arg Leu Lys Thr
 20 25 30

Trp Leu Leu Ser Glu Lys Lys Gly Val Trp Gly Val Phe Tyr Lys Ala
 35 40 45

Ala Val Ile Gly Thr Arg Leu His Ala Ala Val Ala Ile Ala Cys Val
 50 55 60

Val Met Ala Phe Tyr Val Leu Phe Ile Lys
 65 70

<210> 1431

<211> 45

<212> PRT

<213> Homo sapiens

<400> 1431

Met Leu Leu Gln Phe Ser Ile Phe Phe Ala Pro Val Val Cys Leu Pro
 1 5 10 15

Lys Tyr Ser Pro Phe Met Lys Glu Glu Cys Lys Ala Asp Pro Thr Arg
 20 25 30

Asp Tyr Lys Phe Leu Tyr Ile Tyr Ile Glu Arg Gly Thr
 35 40 45

<210> 1432

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1432

Met Cys Tyr Phe Leu Glu Ile Ser Leu Leu Met Val Phe Ala Leu Asn
 1 5 10 15

Ile Lys Ala Ala Tyr Gly Cys Cys Asn Ile Asn Gly Thr Glu Val His
 20 25 30

Arg Ala Lys Gly Pro Val Ser Val Pro Phe Pro Leu Ser Arg Pro Leu
 35 40 45

Ser Gly Thr Pro Leu Leu Asp Arg Leu Arg Pro Phe Gln Thr Leu
 50 55 60

<210> 1433
 <211> 262
 <212> PRT
 <213> Homo sapiens

 <400> 1433
 Met Leu Phe Ser Ala Leu Leu Leu Glu Val Ile Trp Ile Leu Ala Ala
 1 5 10 15
 Asp Gly Gly Gln His Trp Thr Tyr Glu Gly Pro His Gly Gln Asp His
 20 25 30
 Trp Pro Ala Ser Tyr Pro Glu Cys Gly Asn Asn Ala Gln Ser Pro Ile
 35 40 45
 Asp Ile Gln Thr Asp Ser Val Thr Phe Asp Pro Asp Leu Pro Ala Leu
 50 55 60
 Gln Pro His Gly Tyr Asp Gln Pro Gly Thr Glu Pro Leu Asp Leu His
 65 70 75 80
 Asn Asn Gly His Thr Val Gln Leu Ser Leu Pro Ser Thr Leu Tyr Leu
 85 90 95
 Gly Gly Leu Pro Arg Lys Tyr Val Ala Ala Gln Leu His Leu His Trp
 100 105 110
 Gly Gln Lys Gly Ser Pro Gly Gly Ser Glu His Gln Ile Asn Ser Glu
 115 120 125
 Ala Thr Phe Ala Glu Leu His Ile Val His Tyr Asp Ser Asp Ser Tyr
 130 135 140
 Asp Ser Leu Ser Glu Ala Ala Glu Arg Pro Gln Gly Leu Ala Val Leu
 145 150 155 160
 Gly Ile Leu Ile Glu Leu Glu Lys Leu Gln Gly Thr Leu Phe Ser Thr
 165 170 175
 Glu Glu Glu Pro Ser Lys Leu Leu Val Gln Asn Tyr Arg Ala Leu Gln
 180 185 190
 Pro Leu Asn Gln Arg Met Val Phe Ala Ser Phe Ile Gln Ala Gly Ser
 195 200 205
 Ser Tyr Thr Thr Gly Glu Met Leu Ser Leu Gly Val Gly Ile Leu Val
 210 215 220
 Gly Cys Leu Cys Leu Leu Leu Ala Val Tyr Phe Ile Ala Arg Lys Ile
 225 230 235 240
 Arg Lys Lys Arg Leu Glu Asn Arg Lys Ser Val Val Phe Thr Ser Ala
 245 250 255
 Gln Ala Thr Thr Glu Ala
 260

<210> 1434

<211> 399

<212> PRT

<213> Homo sapiens

<400> 1434

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Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
  1           5           10           15

Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
      20           25           30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
      35           40           45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
      50           55           60

Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
      65           70           75           80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
      85           90           95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
      100          105          110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
      115          120          125

Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
      130          135          140

Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
      145          150          155          160

Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
      165          170          175

Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
      180          185          190

Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
      195          200          205

Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
      210          215          220

Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
      225          230          235          240

Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
      245          250          255

Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
      260          265          270

Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
      275          280          285

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Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
 290 295 300
 Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala
 305 310 315 320
 Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val
 325 330 335
 Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn
 340 345 350
 Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln
 355 360 365
 Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val
 370 375 380
 Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys
 385 390 395

<210> 1435
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1435
 Met Pro Ala Gly Val Pro Met Ser Thr Tyr Leu Lys Met Phe Ala Ala
 1 5 10 15
 Ser Leu Leu Ala Met Cys Ala Gly Ala Glu Val Val His Arg Tyr Tyr
 20 25 30
 Arg Pro Asp Leu Thr Ile Pro Glu Ile Pro Pro Lys Arg Gly Glu Leu
 35 40 45
 Lys Thr Glu Leu Leu Gly Leu Lys Glu Arg Lys His Lys Pro Gln Val
 50 55 60
 Ser Gln Gln Glu Glu Leu Lys
 65 70

<210> 1436
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1436
 Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
 1 5 10 15
 Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
 20 25 30
 Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln
 35 40 45

Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
 50 55 60

Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Asp
 65 70 75 80

Val Asn Lys Pro Gln Gly Arg Ala Pro Ala Cys Leu Gln Val Gln Tyr
 85 90 95

Asn Asp Ile Phe Lys Asn Arg Pro Ala Lys Val Phe Glu Phe Tyr Phe
 100 105 110

Ile Gln Glu Asn Pro Gln Leu Phe Lys Leu
 115 120

<210> 1437
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1437
 Met Leu Phe Trp Lys Phe Gly Ser Phe Leu Phe Phe Cys Leu Pro Leu
 1 5 10 15

Thr Leu Phe Cys Ile Leu Asn Glu Arg Gly Ile Met His Leu Glu Gly
 20 25 30

Gly Thr Leu Leu Asn Ser Leu Ser His Val Arg His Tyr Leu Arg Leu
 35 40 45

Arg Leu Ser Cys Phe Glu Lys Ile Pro Leu His Arg Ser Ile Phe Ile
 50 55 60

Phe Leu Leu Leu Leu Leu
 65 70

<210> 1438
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 1438
 Met Leu Val Val Cys Leu Leu Leu Ala Thr Gly Phe Cys Leu Phe Arg
 1 5 10 15

Gly Leu Ile Ala Leu Asp Cys Pro Ser Glu Leu Cys Arg Leu Tyr Thr
 20 25 30

Gln Phe Gln Glu Pro Tyr Leu Lys Asp Pro Ala Ala Tyr Pro Lys Ile
 35 40 45

Gln Met Leu Ala Tyr Met Phe Tyr Ser Val Pro Tyr Phe Val Thr Ala
 50 55 60

Leu Tyr Gly Leu Val Val Pro Gly Cys Ser Trp Met Pro Asp Ile Thr
 65 70 75 80

Leu Ile His Ala Gly Gly Leu Ala Gln Ala Gln Phe Ser His Ile Gly
 85 90 95
 Ala Ser Leu His Ala Arg Thr Ala Tyr Val Tyr Arg Val Pro Glu Glu
 100 105 110
 Ala Lys Ile Leu Phe Leu Ala Leu Asn Ile Ala Tyr Gly Val Leu Pro
 115 120 125
 Gln Leu Leu Ala Tyr Arg Cys Ile Tyr Lys Pro Glu Phe Phe Ile Lys
 130 135 140
 Thr Lys Ala Glu Glu Lys Val Glu
 145 150

<210> 1439
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1439
 Met Pro Ser Leu Asn Leu Val Leu Arg Pro Leu Ile Cys Leu Ala Ser
 1 5 10 15
 Ile Thr Ser Phe Leu Ile Phe Phe Pro Leu Leu Thr Leu Ile Leu Cys
 20 25 30
 Ser Pro Asn Ser Pro Pro Phe Pro Leu Pro Ala His Pro Glu Arg His
 35 40 45
 Thr His Thr Gln
 50

<210> 1440
 <211> 217
 <212> PRT
 <213> Homo sapiens

<400> 1440
 Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala Val Leu
 1 5 10 15
 Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro Arg Tyr
 20 25 30
 Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val Ile Gly
 35 40 45
 Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile Lys Asn
 50 55 60
 Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr Ile Leu
 65 70 75 80
 Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe Leu Asn
 85 90 95

Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile Tyr Tyr
 100 105 110

Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu Phe Lys
 115 120 125

Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu Ser Gly
 130 135 140

Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe Lys Asp
 145 150 155 160

Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn Pro Pro
 165 170 175

Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp Lys Asn
 180 185 190

Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro Glu Glu
 195 200 205

Lys Pro Lys Val Phe Ile Ile His Ser
 210 215

<210> 1441

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1441

Met Ser Val Leu Ser Gly Phe Leu Phe Ile Val Val Val Cys Cys Tyr
 1 5 10 15

Cys Cys Phe Val Ala Arg Leu Gln Leu Thr Lys Tyr Glu Phe Lys Asn
 20 25 30

Cys Val Val Ile Phe Arg Asp Leu
 35 40

<210> 1442

<211> 135

<212> PRT

<213> Homo sapiens

<400> 1442

Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala
 1 5 10 15

Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
 20 25 30

Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
 35 40 45

Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
 50 55 60

Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
 65 70 75 80
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
 85 90 95
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
 100 105 110
 Ala Ala Leu Gly Ala Ala Ser Ala Thr Leu Met Val Gly Leu Thr Val
 115 120 125
 Arg Ile Leu Ala Thr Arg His
 130 135

<210> 1443
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 1443
 Met Thr Val Ile Leu Ile Ile Leu Ile Val Val Met Ala Arg Tyr Cys
 1 5 10 15
 Arg Ser Lys Asn Lys Asn Gly Tyr Glu Ala Gly Lys Lys Asp His Glu
 20 25 30
 Asp Phe Phe Thr Pro Gln Gln His Asp Lys Ser Lys Lys Pro Lys Lys
 35 40 45
 Asp Lys Lys Asn Lys Lys Ser Lys Gln Pro Leu Tyr Ser Ser Ile Val
 50 55 60
 Thr Val Glu Ala Ser Lys Pro Asn Gly Gln Arg Tyr Asp Ser Val Asn
 65 70 75 80
 Glu Lys Leu Ser Asp Ser Pro Ser Met Gly Arg Tyr Arg Ser Val Asn
 85 90 95
 Gly Gly Pro Gly Ser Pro Asp Leu Ala Arg His Tyr Lys Ser Ser Ser
 100 105 110
 Pro Leu Pro Thr Val Gln Leu His Pro Gln Ser Pro Thr Ala Gly Lys
 115 120 125
 Lys His Gln Ala Val Gln Asp Leu Pro Pro Ala Asn Thr Phe Val Gly
 130 135 140
 Ala Gly Asp Asn Ile Ser Ile Gly Ser Asp His Cys Ser Glu Tyr Ser
 145 150 155 160
 Cys Gln Thr Asn Asn Lys Tyr Ser Lys Gln Met Arg Leu His Pro Tyr
 165 170 175
 Ile Thr Val Phe Gly
 180

<210> 1444
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1444
 Met Gln Leu Thr Leu Gly Gly Ala Ala Val Gly Ala Gly Ala Val Leu
 1 5 10 15
 Ala Ala Ser Leu Leu Trp Ala Cys Ala Val Gly Leu Tyr Met Gly Gln
 20 25 30
 Leu Glu Leu Asp Val Glu Leu Val Pro Glu Asp Asp Gly Thr Ala Ser
 35 40 45
 Ala Glu Gly Pro Asp Glu Ala Gly Arg Pro Pro Pro Glu
 50 55 60

<210> 1445
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1445
 Met Ala Thr Ile Leu Leu Lys Leu Pro Ile Leu Ser Ala Met Ile Lys
 1 5 10 15
 Lys Pro Leu Arg Asn Tyr Leu Lys Thr Ser Glu Thr Thr Met Glu Lys
 20 25 30
 Ile Ile Ile Gln Lys Leu Val Ala Asn Leu Lys Phe Leu Pro Leu Gly
 35 40 45
 Thr Leu Gln Leu Ala Met Met Ile Ala Asn Leu Ile Lys Lys Leu Phe
 50 55 60
 Phe Pro Leu Val Lys Ala Ala Lys
 65 70

<210> 1446
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 1446
 Met Val Ser Trp Met Ile Cys Arg Leu Val Val Leu Val Phe Gly Met
 1 5 10 15
 Leu Cys Pro Ala Tyr Ala Ser Tyr Lys Ala Val Lys Thr Lys Asn Ile
 20 25 30
 Arg Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Phe
 35 40 45
 Met Ala Ala Glu Ile Val Thr Asp Ile Phe Ile Ser Trp Phe Pro Phe
 50 55 60

Tyr Tyr Glu Ile Lys Met Ala Phe Val Leu Trp Leu Leu Ser Pro Tyr
 65 70 75 80
 Thr Lys Gly Ala Ser Leu Leu Tyr Arg Lys Phe Val His Pro Ser Leu
 85 90 95
 Ser Arg His Glu Lys Glu Ile Asp Ala Tyr Ile Val Gln Ala Lys Glu
 100 105 110
 Arg Ser Tyr Glu Thr Val Leu Ser Phe Gly Lys Arg Gly Leu Asn Ile
 115 120 125
 Ala Ala Ser Ala Ala Val Gln Ala Ala Thr Lys Ser Gln Gly Ala Leu
 130 135 140
 Ala Gly Arg Leu Arg Ser Phe Ser Met Gln Asp Leu Arg Ser Ile Ser
 145 150 155 160
 Asp Ala Pro Ala Pro Ala Tyr His Asp Pro Leu Tyr Leu Glu Asp Gln
 165 170 175
 Val Ser His Arg Arg Pro Pro Ile Gly Tyr Arg Ala Gly Gly Leu Gln
 180 185 190
 Asp Ser Asp Thr Glu Asp Glu Cys Trp Ser Asp Thr Glu Ala Val Pro
 195 200 205
 Arg Ala Pro Ala Arg Pro Arg Glu Lys Pro Leu Ile Arg Ser Gln Ser
 210 215 220
 Leu Arg Val Val Lys Arg Lys Pro Pro Val Arg Glu Gly Thr Ser Arg
 225 230 235 240
 Ser Leu Lys Val Arg Thr Arg Lys Lys Thr Val Pro Ser Asp Val Asp
 245 250 255
 Ser

<210> 1447
 <211> 256
 <212> PRT
 <213> Homo sapiens

<400> 1447
 Met Val Ile Ser Ile Phe Phe Ser Leu Pro Phe Ser Thr Ser Ala Tyr
 1 5 10 15
 Thr Leu Ile Ala Pro Asn Ile Asn Arg Arg Asn Glu Ile Gln Arg Ile
 20 25 30
 Ala Glu Gln Glu Leu Ala Asn Leu Glu Lys Trp Lys Glu Gln Asn Arg
 35 40 45
 Ala Lys Pro Val His Leu Val Pro Arg Arg Leu Gly Gly Ser Gln Ser
 50 55 60
 Glu Thr Glu Val Arg Gln Lys Gln Gln Leu Gln Leu Met Gln Ser Lys
 65 70 75 80

Tyr Lys Gln Lys Leu Lys Arg Glu Glu Ser Val Arg Ile Lys Lys Glu
 85 90 95
 Ala Glu Glu Ala Glu Leu Gln Lys Met Lys Ala Ile Gln Arg Glu Lys
 100 105 110
 Ser Asn Lys Leu Glu Glu Lys Lys Arg Leu Gln Glu Asn Leu Arg Arg
 115 120 125
 Glu Ala Phe Arg Glu His Gln Gln Tyr Lys Thr Ala Glu Phe Leu Ser
 130 135 140
 Lys Leu Asn Thr Glu Ser Pro Asp Arg Ser Ala Cys Gln Ser Ala Val
 145 150 155 160
 Cys Gly Pro Gln Ser Ser Thr Trp Ala Arg Ser Trp Ala Tyr Arg Asp
 165 170 175
 Ser Leu Lys Ala Glu Glu Asn Arg Lys Leu Gln Lys Met Lys Asp Glu
 180 185 190
 Gln His Gln Lys Ser Glu Leu Leu Glu Leu Lys Arg Gln Gln Gln Glu
 195 200 205
 Gln Glu Arg Ala Lys Ile His Gln Thr Glu His Arg Arg Val Asn Asn
 210 215 220
 Ala Phe Leu Asp Arg Leu Gln Gly Lys Ser Gln Pro Gly Gly Leu Glu
 225 230 235 240
 Gln Ser Gly Gly Cys Trp Asn Met Asn Ser Gly Asn Ser Trp Gly Ile
 245 250 255

<210> 1448
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1448
 Met Arg Thr Phe Leu Thr Phe Val Ile Leu Lys Val Ile Leu Ile Phe
 1 5 10 15
 Leu Ser Ser Cys Ala Ser Phe Thr Arg Asn Leu Leu Thr Trp Pro Asn
 20 25 30
 Asp Val Ser Thr Glu Gln Phe Glu Thr Arg Pro Phe Gly Ser Glu Leu
 35 40 45
 Leu Gln Thr Val Ile Asn Val Ser Arg Thr
 50 55

<210> 1449
 <211> 59

<212> PRT

<213> Homo sapiens

<400> 1449

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Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr
 1             5             10             15

Leu Phe Cys Phe Ala Tyr Thr Leu Ile His Leu Ile Leu Leu Thr Thr
      20             25             30

Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln
      35             40             45

Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu
 50             55

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<210> 1450

<211> 182

<212> PRT

<213> Homo sapiens

<400> 1450

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Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly
 1             5             10             15

Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg
      20             25             30

Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His
      35             40             45

Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala
 50             55             60

Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly
 65             70             75             80

Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val
      85             90             95

Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His
      100             105             110

Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg
      115             120             125

Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His
      130             135             140

Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr
      145             150             155             160

Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln
      165             170             175

Asp Gly Asp Ser Met Ala
      180

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<210> 1451

<211> 286

<212> PRT

<213> Homo sapiens

<400> 1451

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Met Ala Met Glu Gly Tyr Trp Arg Phe Leu Ala Leu Leu Gly Ser Ala
 1              5              10              15

Leu Leu Val Gly Phe Leu Ser Val Ile Phe Ala Leu Val Trp Val Leu
      20              25              30

His Tyr Arg Glu Gly Leu Gly Trp Asp Gly Ser Ala Leu Glu Phe Asn
      35              40              45

Trp His Pro Val Leu Met Val Thr Gly Phe Val Phe Ile Gln Gly Ile
      50              55              60

Ala Ile Ile Val Tyr Arg Leu Pro Trp Thr Trp Lys Cys Ser Lys Leu
      65              70              75              80

Leu Met Lys Ser Ile His Ala Gly Leu Asn Ala Val Ala Ala Ile Leu
      85              90              95

Ala Ile Ile Ser Val Val Ala Val Phe Glu Asn His Asn Val Asn Asn
      100             105             110

Ile Ala Asn Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val
      115             120             125

Ile Cys Tyr Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu
      130             135             140

Pro Trp Ala Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val
      145             150             155             160

Tyr Ser Gly Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met
      165             170             175

Gly Leu Thr Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser
      180             185             190

Thr Phe Pro Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile
      195             200             205

Leu Val Phe Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp
      210             215             220

Lys Arg Pro Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly
      225             230             235             240

Thr Glu Gln Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn
      245             250             255

Met Asp Lys Ser Asp Ser Glu Leu Asn Ser Glu Val Ala Ala Arg Lys
      260             265             270

Arg Asn Leu Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met
      275             280             285

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<210> 1452

<211> 950

<212> PRT

<213> Homo sapiens

<400> 1452

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Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
  1             5             10             15

Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
          20             25             30

His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
      35             40             45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
      50             55             60

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
  65             70             75             80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
          85             90             95

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
      100             105             110

Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
      115             120             125

Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
  130             135             140

Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser
  145             150             155             160

Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr
      165             170             175

Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln
      180             185             190

Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
      195             200             205

Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
  210             215             220

Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
  225             230             235             240

Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala
      245             250             255

Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
      260             265             270

Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly
      275             280             285

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Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro
 290 295 300
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
 305 310 315 320
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
 325 330 335
 Thr Ala Pro Ala Leu Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
 340 345 350
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
 355 360 365
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
 370 375 380
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr
 385 390 395 400
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
 405 410 415
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg
 420 425 430
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
 435 440 445
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
 450 455 460
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
 465 470 475 480
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys
 485 490 495
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu
 500 505 510
 Ser Arg Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn
 515 520 525
 Val Pro Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu
 530 535 540
 Lys Pro Glu Lys Glu Lys Lys Lys Lys Met Lys Asn Glu Asn Ala Asp
 545 550 555 560
 Lys Leu Leu Lys Ser Glu Lys Gln Met Lys Lys Ser Glu Lys Lys Ser
 565 570 575
 Lys Gln Glu Lys Glu Lys Ser Lys Lys Lys Lys Gly Gly Lys Thr Glu
 580 585 590
 Gln Asp Gly Tyr Gln Lys Pro Thr Asn Lys His Phe Thr Gln Ser Pro
 595 600 605

Lys Lys Ser Val Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys Arg Arg
 610 615 620
 Leu Leu Leu Ile Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr Val Gln
 625 630 635 640
 Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr Arg Lys
 645 650 655
 Ile Ser Val Ile Thr Ile Phe Gly Pro Val Asn Asn Ser Thr Met Lys
 660 665 670
 Ile Asp His Phe Gln Leu Asp Asn Glu Lys Pro Met Arg Val Val Asp
 675 680 685
 Asp Glu Asp Leu Val Asp Gln Arg Leu Ile Ser Glu Leu Arg Lys Glu
 690 695 700
 Tyr Gly Met Thr Tyr Asn Asp Phe Phe Met Val Leu Thr Asp Val Asp
 705 710 715 720
 Leu Arg Val Lys Gln Tyr Tyr Glu Val Pro Ile Thr Met Lys Ser Val
 725 730 735
 Phe Asp Leu Ile Asp Thr Phe Gln Ser Arg Ile Lys Asp Met Glu Lys
 740 745 750
 Gln Lys Lys Glu Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu
 755 760 765
 Glu Asn Phe Leu Ser Arg Phe Arg Trp Arg Arg Arg Leu Leu Val Ile
 770 775 780
 Ser Ala Pro Asn Asp Glu Asp Trp Ala Tyr Ser Gln Gln Leu Ser Ala
 785 790 795 800
 Leu Ser Gly Gln Ala Cys Asn Phe Gly Leu Arg His Ile Thr Ile Leu
 805 810 815
 Lys Leu Leu Gly Val Gly Glu Glu Val Gly Gly Val Leu Glu Leu Phe
 820 825 830
 Pro Ile Asn Gly Ser Ser Val Val Glu Arg Glu Asp Val Pro Ala His
 835 840 845
 Leu Val Lys Asp Ile Arg Asn Tyr Phe Gln Val Ser Pro Glu Tyr Phe
 850 855 860
 Ser Met Leu Leu Val Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro
 865 870 875 880
 Ser Pro Met Trp Ser Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met
 885 890 895
 Gln Leu Arg Arg Gln Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg
 900 905 910
 Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly Tyr His Ser Tyr His Gln
 915 920 925
 Gly Tyr Gln Asp Gly Tyr Gln Asp Asp Tyr Arg His His Glu Ser Tyr

930 935 940
 His His Gly Tyr Pro Tyr
 945 950

 <210> 1453
 <211> 247
 <212> PRT
 <213> Homo sapiens

 <400> 1453
 Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu Leu Leu
 1 5 10 15
 Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu Lys Val
 20 25 30
 Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu Val Gly
 35 40 45
 Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly Arg Glu
 50 55 60
 Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His Thr Gly
 65 70 75 80
 Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met Asp Lys
 85 90 95
 Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys Glu Ala
 100 105 110
 Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala Gly Lys
 115 120 125
 Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His Gln Ala
 130 135 140
 Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala Ala Asp
 145 150 155 160
 Gln Ala Gly Lys Glu Val Glu Lys Leu Gly Gln Gly Ala His His Ala
 165 170 175
 Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly Val Asn
 180 185 190
 Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His Gln Ser
 195 200 205
 Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu Ala Ser
 210 215 220
 Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu Trp Arg
 225 230 235 240
 Ser Val Ala Asn Ile Met Pro
 245

<210> 1454
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1454
 Met Gly Cys Arg Gly Asn Lys Leu Phe Val Leu Ser Tyr Cys Thr Cys
 1 5 10 15
 Leu Thr Trp Leu Leu Gly Thr Lys Ser Gln Lys Asn Pro Phe Gln Val
 20 25 30
 Cys Met Ser Gly Gly Trp Ala Val Ser Arg Leu Glu Thr Gly Phe Gln
 35 40 45
 Ala Leu His Asp Gly Arg Ala Ser Ser Pro Leu Ser Ala Ala Cys Val
 50 55 60
 Leu Asp Arg Thr Val Ala Arg Arg Trp Lys Pro Pro Ser Val Pro Leu
 65 70 75 80
 Ala His His Thr Lys
 85

<210> 1455
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1455
 Met Ala Gly Cys Cys Leu Lys Leu Phe Gly Val Leu Ser Leu Cys Phe
 1 5 10 15
 Leu Cys Gly Leu Ile Ser Ile Glu Arg Val Ile Cys Asn Pro Val Ser
 20 25 30
 Ala Asp Phe Gln Val Ser Thr Phe Cys Gln Arg His Cys Leu Leu Arg
 35 40 45
 Ser Lys Val Met Phe Leu Ile Lys Gly Ile Thr Ala Thr Ile Glu Val
 50 55 60
 Ile Asn Glu Asn Cys Thr Leu Val Ala Ala Pro Pro Ile Gly Phe Pro
 65 70 75 80
 Ile Val Phe Leu

<210> 1456
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1456
 Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln

1 5 10 15
 Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu
 20 25 30
 Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys
 35 40

<210> 1457
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1457
 Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys
 1 5 10 15
 Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His
 20 25 30
 Leu Lys Thr Met Gly Ser Gly Tyr Ala
 35 40

<210> 1458
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1458
 Met Cys Lys Leu Cys Phe Tyr Leu Tyr Leu Cys Thr Trp Phe Pro Phe
 1 5 10 15
 Gly Ala Ser Gly Leu Phe Trp Asp Lys Trp Cys Leu Pro Arg His Leu
 20 25 30
 Pro Val Val Ser Gly Gln Glu Gln Leu Ser Ser Ser Leu Pro Ala Ala
 35 40 45
 Leu Leu Phe Leu Gly Arg Arg Trp Arg Pro Pro Leu Arg Val Ser Pro
 50 55 60
 Gly Leu Ser Phe Arg Gly Gly Arg Ala Gly Glu Pro Gln Gly Trp Gly
 65 70 75 80
 Asp Ser Trp Glu Met Glu Val Ala Pro Ala Pro Leu Asp Gln Tyr Trp
 85 90 95

Leu

<210> 1459
 <211> 218
 <212> PRT
 <213> Homo sapiens

<400> 1459

Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu
 1 5 10 15
 Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys
 20 25 30
 Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys
 35 40 45
 Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly
 50 55 60
 Ser Lys Phe Tyr Cys Ser Arg Thr Gln Asn Glu Gly His Pro Lys Trp
 65 70 75 80
 Phe Val Leu Gly Val Gly Gln Val Ile Lys Gly Leu Asp Ile Ala Met
 85 90 95
 Thr Asp Met Cys Pro Gly Glu Lys Arg Lys Val Val Ile Pro Pro Ser
 100 105 110
 Phe Ala Tyr Gly Lys Glu Gly Tyr Ala Glu Gly Lys Ile Pro Pro Asp
 115 120 125
 Ala Thr Leu Ile Phe Glu Ile Glu Leu Tyr Ala Val Thr Lys Gly Pro
 130 135 140
 Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln
 145 150 155 160
 Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln Arg Glu Phe Glu Lys
 165 170 175
 Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp
 180 185 190
 Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe Ile Ser Pro Lys
 195 200 205
 Glu Tyr Asn Val Tyr Gln His Asp Glu Leu
 210 215

<210> 1460

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1460

Met Leu Thr Val Lys Ile Leu Lys Cys Phe Leu Gly Trp Ala Val Val
 1 5 10 15
 Ala Gly Gly Leu Gly Arg Ser Gln Ala Arg Pro Ser Leu Leu Phe Asn
 20 25 30
 Arg Leu Ser Pro Ser Val Pro Gln Met Arg Ile Gln Gln Pro Trp
 35 40 45

<210> 1461
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1461
 Met Ala Pro Leu Trp Thr Leu Arg Pro Val Leu Val Trp Thr Thr Pro
 1 5 10 15
 Thr Ser Met Gly Glu Val Ser Pro Trp Leu Thr Ser Thr Val Met Ala
 20 25 30
 Lys Trp Thr Ser Ser Met Ala Thr Gly Met Ala Pro Thr Ala Ser Ile
 35 40 45
 Cys Arg
 50

<210> 1462
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1462
 Met Arg Ile Ser Arg Cys Asn Ile Ser Leu Glu Ile Val Ser Pro Ser
 1 5 10 15
 Ile Leu Leu Thr Phe Leu Asp Leu Ile Ile Leu Leu Trp Ala Leu Ala
 20 25 30
 Ser Cys Tyr Arg Arg Phe Thr Ser Phe Pro Ala Leu Asn Leu Pro Asp
 35 40 45
 Val Asn Ser Thr Leu His Tyr Leu Gln Gln
 50 55

<210> 1463
 <211> 606
 <212> PRT
 <213> Homo sapiens

<400> 1463
 Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro
 1 5 10 15
 Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
 20 25 30
 Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
 35 40 45
 Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu
 50 55 60
 Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly
 65 70 75 80

Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg
 85 90 95
 Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser
 100 105 110
 Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr
 115 120 125
 Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr
 130 135 140
 Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp
 145 150 155 160
 Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe
 165 170 175
 Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu
 180 185 190
 Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp
 195 200 205
 Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp
 210 215 220
 Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile
 225 230 235 240
 Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile
 245 250 255
 Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu
 260 265 270
 Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn
 275 280 285
 Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg
 290 295 300
 Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu
 305 310 315 320
 Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His
 325 330 335
 Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr
 340 345 350
 Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly
 355 360 365
 Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser
 370 375 380
 Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala
 385 390 395 400

Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu
 405 410 415
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile
 420 425 430
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys
 435 440 445
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val
 450 455 460
 Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val
 465 470 475 480
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr
 485 490 495
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly
 500 505 510
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp
 515 520 525
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu
 530 535 540
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met
 545 550 555 560
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr
 565 570 575
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser
 580 585 590
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp
 595 600 605

<210> 1464

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1464

Met Ala Val Arg Cys Ile Leu Ala Gly Gly Cys Leu Pro Ala Val Arg
 1 5 10 15
 Gly Thr Phe Ser Val Leu Leu Lys Gly Met Tyr Lys Pro Met Gly Asp
 20 25 30
 Leu Ile Ser Cys Val Phe Arg Cys Val Ala Gly Gly Leu Gly Trp Gly
 35 40 45
 Gly Gly Ala Ser Glu Gln Cys Val Glu Ser Leu Val Val Thr
 50 55 60

<210> 1465

<211> 295

<212> PRT

<213> Homo sapiens

<400> 1465

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Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
  1              5              10              15

Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
      20              25              30

Arg Pro Glu Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg
      35              40              45

Ala Arg Leu Gln Gly Ser Ala Thr Ala Ala Glu Ala Ser Leu Leu Arg
      50              55              60

Arg Thr His Leu Cys Ser Leu Ser Lys Ser Asp Thr Arg Leu His Glu
      65              70              75              80

Leu His Arg Gly Pro Arg Ser Ser Arg Ala Leu Arg Pro Ala Ser Met
      85              90              95

Asp Leu Leu Arg Pro His Trp Leu Glu Val Ser Arg Asp Ile Thr Gly
      100             105             110

Pro Gln Ala Ala Pro Ser Ala Phe Pro His Gln Glu Leu Pro Arg Ala
      115             120             125

Leu Pro Ala Ala Ala Ala Thr Ala Gly Cys Ala Gly Leu Glu Ala Thr
      130             135             140

Tyr Ser Asn Val Gly Leu Ala Ala Leu Pro Gly Val Ser Leu Ala Ala
      145             150             155             160

Ser Pro Val Val Ala Glu Tyr Ala Arg Val Gln Lys Arg Lys Gly Thr
      165             170             175

His Arg Ser Pro Gln Glu Pro Gln Gln Gly Lys Thr Glu Val Thr Pro
      180             185             190

Ala Ala Gln Val Asp Val Leu Tyr Ser Arg Val Cys Lys Pro Lys Arg
      195             200             205

Arg Asp Pro Gly Pro Thr Thr Asp Pro Leu Asp Pro Lys Gly Gln Gly
      210             215             220

Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu
      225             230             235             240

Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser
      245             250             255

Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala
      260             265             270

Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg
      275             280             285

Pro Leu Pro Ala Ser Leu Pro

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290

295

<210> 1466
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1466
 Met Cys Leu Leu Val Glu Tyr Ser Leu Met Ile Leu Thr Ile Ile Pro
 1 5 10 15
 Ser Leu Leu Ser Phe Val Leu Cys Leu Lys Gly Ile Lys His Gly Asn
 20 25 30
 Tyr Ile Phe Gln Thr Pro Leu Pro Glu Gly Tyr Gly Trp Ile Ser Ala
 35 40 45
 Met Ser Gly Leu Cys Ile Lys Phe Gly Arg Arg Lys Arg Arg Lys Thr
 50 55 60
 Trp Leu Leu Gln Val Gly Thr Leu Ala Thr Ile Asp Thr Glu Phe Ala
 65 70 75 80
 Arg Ser Cys

<210> 1467
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any amino acid

<400> 1467
 Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu
 1 5 10 15
 Leu Ser Phe Leu Ile Ser Asp Trp Pro Pro Pro Thr Gly Ser Ala Xaa
 20 25 30
 His Lys Ile Leu Arg Leu Met Val Val Gln Arg Leu Ser Leu Leu Asp
 35 40 45
 Gln Arg Lys Arg Trp Ser Glu Ala
 50 55

<210> 1468
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1468

Met Leu Thr Ser Trp Ile Ala Ser Ile Pro Ser Arg Cys Gly Val Leu
 1 5 10 15
 Cys Ile Cys Leu Cys Phe Gly Leu Val His Cys Leu Asp Leu Ser Arg
 20 25 30
 Lys Ile Thr Ile Phe Ser Gly Ala Val Tyr Met Val Lys Asn Ile Gln
 35 40 45
 Phe Trp Leu
 50

<210> 1469
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1469
 Met Leu Phe Leu Ser Ala Ser Ile Cys Thr Ser Ala Leu Phe Leu Cys
 1 5 10 15
 Leu Ser Arg Leu Thr Ile Ser Ala Pro His Pro Ala Trp Trp Gly Arg
 20 25 30
 Met Pro Thr His Thr Ser Pro Gly His Leu Leu Glu Leu Gln Pro Arg
 35 40 45
 Gly Met Thr Glu Ser Ile Leu Phe Ser Ile Ser Ala Leu Val Ser Asn
 50 55 60
 Ser Trp Gly Lys Met Thr Gln Leu Thr Ser Gly Ser His Ser Trp Ser
 65 70 75 80
 Ser Gly Leu Gln Asn Phe Gln Ala
 85

<210> 1470
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1470
 Met Ala Ile Arg Leu Val Phe Leu Ala Leu Ala Gly Leu Val Asp Gly
 1 5 10 15
 Lys Pro Val Trp Ile Thr Leu Trp Met Asp Ala Lys Arg Pro Asn Leu
 20 25 30
 Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys
 35 40 45
 His Gly Pro Thr Ala Trp Ser Leu Pro Cys Leu Leu Cys Leu Phe Arg
 50 55 60
 Ala Gln Gln Lys Asp Arg Glu Arg Ser Leu Leu Gly Val Pro Leu Pro
 65 70 75 80

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Thr Leu Gln Gly Gly Asn Leu Ser Asp Gly
85 90

<210> 1471
<211> 267
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (227)
<223> Xaa equals any amino acid

<400> 1471
Met Leu Ile Ala Val Gly Ile His Leu Leu Leu Met Phe Glu Val
1 5 10 15
Leu Val Cys Asp Arg Xaa Glu Arg Gly Thr His Phe Trp Leu Leu Val
20 25 30
Phe Met Pro Leu Phe Phe Val Ser Pro Val Ser Val Ala Ala Cys Val
35 40 45
Trp Gly Phe Arg His Asp Arg Ser Leu Glu Leu Glu Ile Leu Cys Ser
50 55 60
Val Asn Ile Leu Gln Phe Ile Phe Ile Ala Leu Lys Leu Asp Arg Ile
65 70 75 80
Ile His Trp Pro Trp Leu Val Val Phe Val Pro Leu Trp Ile Leu Met
85 90 95
Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu Leu
100 105 110
Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His Val
115 120 125
Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr Phe
130 135 140
Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser Tyr
145 150 155 160
Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met Ala
165 170 175
Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg
180 185 190
Arg Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu
195 200 205
Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp Ala

| | | |
|---------------------|---|---------------------|
| 210 | 215 | 220 |
| Glu Glu Xaa Ser Val | Pro Glu Ala Pro Lys Ile | Ala Pro Ile Phe Gly |
| 225 | 230 | 235 240 |
| Lys Lys Ala Arg Val | Val Ile Thr Gln Ser Pro Gly Lys Tyr Val | Pro |
| | 245 | 250 255 |
| Pro Pro Pro Lys Leu | Asn Ile Asp Met Pro Asp | |
| | 260 | 265 |

<210> 1472
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1472
 Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser
 1 5 10 15
 Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tyr His
 20 25 30
 Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met
 35 40 45
 Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile
 50 55 60

<210> 1473
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1473
 Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp
 1 5 10 15
 Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln
 20 25 30
 Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro
 35 40 45
 Trp Thr Glu Leu His His Cys Leu Arg
 50 55

<210> 1474
 <211> 672
 <212> PRT
 <213> Homo sapiens

<400> 1474
 Met Cys Ser Arg Val Pro Leu Leu Leu Pro Leu Leu Leu Leu Ala
 1 5 10 15

Leu Gly Pro Gly Val Gln Gly Cys Pro Ser Gly Cys Gln Cys Ser Gln
 20 25 30
 Pro Gln Thr Val Phe Cys Thr Ala Arg Gln Gly Thr Thr Val Pro Arg
 35 40 45
 Asp Val Pro Pro Asp Thr Val Gly Leu Tyr Val Phe Glu Asn Gly Ile
 50 55 60
 Thr Met Leu Asp Ala Gly Ser Phe Ala Gly Leu Pro Gly Leu Gln Leu
 65 70 75 80
 Leu Asp Leu Ser Gln Asn Gln Ile Ala Ser Leu Pro Ser Gly Val Phe
 85 90 95
 Gln Pro Leu Ala Asn Leu Ser Asn Leu Asp Leu Thr Ala Asn Arg Leu
 100 105 110
 His Glu Ile Thr Asn Glu Thr Phe Arg Gly Leu Arg Arg Leu Glu Arg
 115 120 125
 Leu Tyr Leu Gly Lys Asn Arg Ile Arg His Ile Gln Pro Gly Ala Phe
 130 135 140
 Asp Thr Leu Asp Arg Leu Leu Glu Leu Lys Leu Gln Asp Asn Glu Leu
 145 150 155 160
 Arg Ala Leu Pro Pro Leu Arg Leu Pro Arg Leu Leu Leu Leu Asp Leu
 165 170 175
 Ser His Asn Ser Leu Leu Ala Leu Glu Pro Gly Ile Leu Asp Thr Ala
 180 185 190
 Asn Val Glu Ala Leu Arg Leu Ala Gly Leu Gly Leu Gln Gln Leu Asp
 195 200 205
 Glu Gly Leu Phe Ser Arg Leu Arg Asn Leu His Asp Leu Asp Val Ser
 210 215 220
 Asp Asn Gln Leu Glu Arg Val Pro Pro Val Ile Arg Gly Leu Arg Gly
 225 230 235 240
 Leu Thr Arg Leu Arg Leu Ala Gly Asn Thr Arg Ile Ala Gln Leu Arg
 245 250 255
 Pro Glu Asp Leu Ala Gly Leu Ala Ala Leu Gln Glu Leu Asp Val Ser
 260 265 270
 Asn Leu Ser Leu Gln Ala Leu Pro Gly Asp Leu Ser Gly Leu Phe Pro
 275 280 285
 Arg Leu Arg Leu Leu Ala Ala Ala Arg Asn Pro Phe Asn Cys Val Cys
 290 295 300
 Pro Leu Ser Trp Phe Gly Pro Trp Val Arg Glu Ser His Val Thr Leu
 305 310 315 320
 Ala Ser Pro Glu Glu Thr Arg Cys His Phe Pro Pro Lys Asn Ala Gly
 325 330 335

Arg Leu Leu Leu Glu Leu Asp Tyr Ala Asp Phe Gly Cys Pro Ala Thr
 340 345 350
 Thr Thr Thr Ala Thr Val Pro Thr Thr Arg Pro Val Val Arg Glu Pro
 355 360 365
 Thr Ala Leu Ser Ser Ser Leu Ala Pro Thr Trp Leu Ser Pro Thr Ala
 370 375 380
 Pro Ala Thr Glu Ala Pro Ser Pro Pro Ser Thr Ala Pro Pro Thr Val
 385 390 395 400
 Gly Pro Val Pro Gln Pro Gln Asp Cys Pro Pro Ser Thr Cys Leu Asn
 405 410 415
 Gly Gly Thr Cys His Leu Gly Thr Arg His His Leu Ala Cys Leu Cys
 420 425 430
 Pro Glu Gly Phe Thr Gly Leu Tyr Cys Glu Ser Gln Met Gly Gln Gly
 435 440 445
 Thr Arg Pro Ser Pro Thr Pro Val Thr Pro Arg Pro Pro Arg Ser Leu
 450 455 460
 Thr Leu Gly Ile Glu Pro Val Ser Pro Thr Ser Leu Arg Val Gly Leu
 465 470 475 480
 Gln Arg Tyr Leu Gln Gly Ser Ser Val Gln Leu Arg Ser Leu Arg Leu
 485 490 495
 Thr Tyr Arg Asn Leu Ser Gly Pro Asp Lys Arg Leu Val Thr Leu Arg
 500 505 510
 Leu Pro Ala Ser Leu Ala Glu Tyr Thr Val Thr Gln Leu Arg Pro Asn
 515 520 525
 Ala Thr Tyr Ser Val Cys Val Met Pro Leu Gly Pro Gly Arg Val Pro
 530 535 540
 Glu Gly Glu Glu Ala Cys Gly Glu Ala His Thr Pro Pro Ala Val His
 545 550 555 560
 Ser Asn His Ala Pro Val Thr Gln Ala Arg Glu Gly Asn Leu Pro Leu
 565 570 575
 Leu Ile Ala Pro Ala Leu Ala Ala Val Leu Leu Ala Ala Leu Ala Ala
 580 585 590
 Val Gly Ala Ala Tyr Cys Val Arg Arg Gly Arg Ala Met Ala Ala Ala
 595 600 605
 Ala Gln Asp Lys Gly Gln Val Gly Pro Gly Ala Gly Pro Leu Glu Leu
 610 615 620
 Glu Gly Val Lys Val Pro Leu Glu Pro Gly Pro Lys Ala Thr Glu Ala
 625 630 635 640
 Val Glu Arg Pro Cys Pro Ala Gly Leu Ser Val Lys Cys His Ser Trp
 645 650 655
 Ala Ser Lys Ala Trp Pro Gln Ser Pro Leu His Ala Lys Pro Tyr Ile

660

665

670

<210> 1475

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any amino acid

<400> 1475

Met Tyr Lys Ala Phe Leu Leu Ala Leu Thr Thr Val Phe Tyr Leu Gly
 1 5 10 15

Ile Leu Asn Ser His Phe His Gly Cys Val Leu Cys Asn Thr Asn Val
 20 25 30

Phe Lys Trp Tyr Ser His Pro Val Gly Gln Leu Ser Lys Arg Cys Leu
 35 40 45

Asp Ala Ser Lys Leu Ala Tyr Xaa Lys Phe Thr Ser Ile Lys Tyr Gln
 50 55 60

Cys Asn Tyr Ser Thr
 65

<210> 1476

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1476

Met Arg Phe Trp Phe Leu Val Phe Cys Phe Phe Phe Phe Pro Glu Ala
 1 5 10 15

His Val Tyr Pro Thr Ser Trp Ser Val Ser Glu Gln Gly Cys Ala Thr
 20 25 30

Ile Ser Val Thr Pro Gly Ile Leu Asn Trp Ile Phe Val Glu Glu Glu
 35 40 45

Asn Asn Thr Val Leu Asp Phe Pro
 50 55

<210> 1477

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (381)

<223> Xaa equals any amino acid

<400> 1477

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Met Ala Leu Thr Ala Pro Ser Leu Ser Leu Asp Ala Arg Gln Leu Trp
  1           5           10           15

Asp Ser Pro Glu Thr Ala Pro Ala Ala Arg Thr Pro Gln Ser Pro Ala
          20           25           30

Pro Cys Val Leu Leu Arg Ala Gln Arg Ser Leu Ala Pro Glu Pro Lys
          35           40           45

Glu Pro Leu Ile Pro Ala Ser Pro Lys Ala Glu Pro Ile Trp Glu Leu
  50           55           60

Pro Thr Arg Ala Pro Arg Leu Ser Ile Gly Asp Leu Asp Phe Ser Asp
  65           70           75           80

Leu Gly Glu Asp Glu Asp Gln Asp Met Leu Asn Val Glu Ser Val Glu
          85           90           95

Ala Gly Lys Asp Ile Pro Ala Pro Ser Pro Pro Leu Pro Leu Leu Ser
          100          105          110

Gly Val Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Ile Lys Gly
          115          120          125

Pro Phe Pro Pro Pro Pro Pro Leu Pro Leu Ala Ala Pro Leu Pro His
          130          135          140

Ser Val Pro Asp Ser Ser Ala Leu Pro Thr Lys Arg Lys Thr Val Lys
          145          150          155          160

Leu Phe Trp Arg Glu Leu Lys Leu Ala Gly Gly His Gly Val Ser Ala
          165          170          175

Ser Arg Phe Gly Pro Cys Ala Thr Leu Trp Ala Ser Leu Asp Pro Val
          180          185          190

Ser Val Asp Thr Ala Arg Leu Glu His Leu Phe Glu Ser Arg Ala Lys
          195          200          205

Glu Val Leu Pro Ser Lys Lys Ala Gly Glu Gly Arg Arg Thr Met Thr
          210          215          220

Thr Val Leu Asp Pro Lys Arg Ser Asn Ala Ile Asn Ile Gly Leu Thr
          225          230          235          240

Thr Leu Pro Pro Val His Val Ile Lys Ala Ala Leu Leu Asn Phe Asp
          245          250          255

Glu Phe Ala Val Ser Lys Asp Gly Ile Glu Lys Leu Leu Thr Met Met
          260          265          270

Pro Thr Glu Glu Glu Arg Gln Lys Ile Glu Glu Ala Gln Leu Ala Asn
          275          280          285

Pro Asp Ile Pro Leu Gly Pro Ala Glu Asn Phe Leu Met Thr Leu Ala

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290 295 300
 Ser Ile Gly Gly Leu Ala Ala Arg Leu Gln Leu Trp Ala Phe Lys Leu
 305 310 315 320
 Asp Tyr Asp Ser Met Glu Arg Glu Ile Ala Glu Pro Leu Phe Asp Leu
 325 330 335
 Lys Val Gly Met Glu Gln Leu Val Gln Asn Ala Thr Phe Arg Cys Ile
 340 345 350
 Leu Ala Thr Leu Leu Ala Val Gly Asn Phe Leu Asn Gly Ser Gln Ser
 355 360 365
 Ser Gly Phe Glu Leu Ser Tyr Leu Glu Lys Val Ser Xaa Val Lys Asp
 370 375 380
 Thr Val Arg Arg Gln Ser Leu Leu His His Leu Cys Ser Leu Val Leu
 385 390 395 400
 Gln Thr Arg Pro Glu Ser Ser Asp Leu Tyr Ser Glu Ile Pro Ala Leu
 405 410 415
 Thr Arg Cys Ala Lys Val Ser Thr Cys Gln Asn Gln Pro Arg Pro Asp
 420 425 430
 Lys Ala

<210> 1478

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1478

Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Gly Leu Ser Ala
 1 5 10 15
 Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu
 20 25 30
 Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg
 35 40 45
 Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro Val His Leu
 50 55 60
 Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys
 65 70 75 80
 Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe
 85 90 95
 Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu
 100 105 110
 Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala
 115 120 125

Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys
 130 135 140
 Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala
 145 150 155 160
 Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val
 165 170 175
 Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu
 180 185 190
 Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu
 195 200 205
 Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu
 210 215 220
 Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu
 225 230 235 240
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile
 245 250 255
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg
 260 265 270
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg
 275 280 285
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser
 290 295 300
 Leu
 305

<210> 1479
 <211> 289
 <212> PRT
 <213> Homo sapiens

<400> 1479
 Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
 1 5 10 15
 Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr
 20 25 30
 Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala
 35 40 45
 Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
 50 55 60
 Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly
 65 70 75 80
 Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp
 85 90 95

Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys
 100 105 110

Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Arg Gly
 115 120 125

Glu Gln Gly Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile
 130 135 140

Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu
 145 150 155 160

Glu Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Phe Asn Glu Gly Glu
 165 170 175

His Tyr Asn Pro Ala Thr Gly Lys Phe Ile Cys Ala Phe Pro Gly Ile
 180 185 190

Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala Ile
 195 200 205

Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala Asn
 210 215 220

Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu Gln
 225 230 235 240

Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn Gly
 245 250 255

Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe Leu
 260 265 270

Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp Glu
 275 280 285

Leu

<210> 1480

<211> 68

<212> PRT

<213> Homo sapiens

<400> 1480

Met Ala Thr Val Gly Leu Ser Trp Lys Lys Glu Leu Val Ile Leu Leu
 1 5 10 15

Val Gly Pro Gly Ala Ala Ala Leu Gln Pro Thr His Thr Cys Cys Ser
 20 25 30

Leu Pro Ser Leu Ser Ser Leu Phe Pro Leu Arg Leu Asn Thr Lys Thr
 35 40 45

Ser Pro Lys Thr Thr Arg Thr Asn Leu Tyr Leu Leu Ser Ile Ala Pro
 50 55 60

Leu Ser His Leu

65

<210> 1481

<211> 243

<212> PRT

<213> Homo sapiens

<400> 1481

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Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val
 1           5           10           15

Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly
          20           25           30

Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp
          35           40           45

Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala
          50           55           60

Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu
 65           70           75           80

Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln
          85           90           95

Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp
          100          105          110

Pro Ile Ala Met Glu Tyr Tyr Asn Trp Gly Arg Phe Ser Lys Pro Pro
          115          120          125

Glu Asp Asp Asp Ala Asn Ser Tyr Glu Asn Val Leu Ile Cys Lys Gln
          130          135          140

Lys Thr Thr Glu Thr Gly Ala Gln Gln Glu Gly Ile Gly Gly Leu Cys
          145          150          155          160

Arg Gly Asp Leu Ser Leu Ser Leu Ala Leu Lys Thr Gly Pro Thr Ser
          165          170          175

Gly Leu Cys Pro Ser Ala Ser Pro Glu Glu Asp Glu Glu Ser Glu Asp
          180          185          190

Tyr Gln Asn Ser Ala Ser Ile His Gln Trp Arg Glu Ser Arg Lys Val
          195          200          205

Met Gly Gln Leu Gln Arg Glu Ala Ser Pro Gly Pro Val Gly Ser Pro
          210          215          220

Asp Glu Glu Asp Gly Glu Pro Asp Tyr Val Asn Gly Glu Val Ala Ala
          225          230          235          240

Thr Glu Ala

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<210> 1482

<211> 364
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any amino acid

<400> 1482
 Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly Pro Arg Leu
 1 5 10 15
 Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu Leu Gly Arg Ala Gly Gly
 20 25 30
 Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala Cys Arg Leu
 35 40 45
 Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser Gly Glu Arg
 50 55 60
 Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met Val Gly Leu
 65 70 75 80
 Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met Gly Thr Met
 85 90 95
 Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu Leu Ser Phe
 100 105 110
 Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu Leu Pro Glu
 115 120 125
 Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu Gly Gln Ser
 130 135 140
 Leu Gln Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala Gly Ile Leu
 145 150 155 160
 Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys Glu Glu Gly
 165 170 175
 Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala Ala Ala Leu
 180 185 190
 Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro Gly Leu Gly
 195 200 205
 Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn Leu Leu Ala
 210 215 220
 Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala Ala Ser Phe
 225 230 235 240
 Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala Ile Leu Leu
 245 250 255
 His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu Leu Arg Ala
 260 265 270

Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser Thr Ala Leu
 275 280 285
 Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln Ser Pro Lys
 290 295 300
 Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr Ser Gly Gly
 305 310 315 320
 Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu Leu Glu Glu
 325 330 335
 Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu Cys Ala Gly
 340 345 350
 Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp
 355 360

<210> 1483
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1483
 Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly
 1 5 10 15
 Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala
 20 25 30
 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu
 35 40 45
 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val
 50 55 60
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro
 65 70 75 80
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Ser Tyr Ser Leu His
 85 90 95
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Leu Pro Ser Ser Ser
 100 105 110
 Gln Pro Glu Asn Ile Pro Asp Leu Tyr His Ala Ala Val Gln Ser Met
 115 120 125
 Cys Leu Pro Met Ala Val Arg Ala Pro Asp His Cys Glu Leu
 130 135 140

<210> 1484
 <211> 282
 <212> PRT
 <213> Homo sapiens

<400> 1484

Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu
 1 5 10 15
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His
 20 25 30
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln
 35 40 45
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser
 50 55 60
 Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser
 65 70 75 80
 Ser Ala Leu Val Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala
 85 90 95
 Thr Lys Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser
 100 105 110
 Leu Val Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu
 115 120 125
 Ser Gln Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp
 130 135 140
 Ala Arg Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn
 145 150 155 160
 Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu
 165 170 175
 Arg Pro Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser
 180 185 190
 Ser Ser Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val
 195 200 205
 Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu
 210 215 220
 His Gly Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His
 225 230 235 240
 Ser Met Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser
 245 250 255
 Thr Ser Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly
 260 265 270
 Val Ala Val Ser Leu Ser His Ile Arg Asn
 275 280

<210> 1485

<211> 87

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any amino acid

<400> 1485
 Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro
 1 5 10 15
 Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp
 20 25 30
 Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala
 35 40 45
 Arg Pro Gly Ala Xaa Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr
 50 55 60
 Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu
 65 70 75 80
 Gly Ala Asn Gly Ala Gln Pro
 85

<210> 1486
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1486
 Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15
 Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30
 Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys
 35 40 45
 Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60
 Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65 70 75

<210> 1487
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1487
 Met Lys Leu Leu Leu Leu Thr Leu Thr Val Leu Leu Leu Leu Ser Gln
 1 5 10 15
 Leu Thr Pro Gly Gly Thr Gln Arg Cys Trp Asn Leu Tyr Gly Lys Cys
 20 25 30

Arg Tyr Arg Cys Ser Lys Lys Glu Arg Val Tyr Val Tyr Cys Ile Asn
 35 40 45

Asn Lys Met Cys Cys Val Lys Pro Lys Tyr Gln Pro Lys Glu Arg Trp
 50 55 60

Trp Pro Phe
 65

<210> 1488

<211> 126

<212> PRT

<213> Homo sapiens

<400> 1488

Met Cys Ser Ser Phe Pro Arg Met Ala Leu Cys Ala Leu Trp Met Trp
 1 5 10 15

Pro Ser Val Lys Ser Ser Val Pro Leu Pro Leu Arg Glu Pro Phe Leu
 20 25 30

Trp Arg Ser Pro Gly Ser Gln Cys Leu Leu Cys Leu Gln Thr Ile His
 35 40 45

Val Ser Cys Ser Glu Ala Cys Pro Leu Leu Glu Asn Ile Ser Lys Asn
 50 55 60

Cys Thr Ile Pro Gln Arg Asp Leu Asp Asn Met Ala Phe Pro Gln Ala
 65 70 75 80

Leu Pro Leu Glu Lys Arg Cys Glu Arg Phe Leu Gln Lys Ser Tyr Arg
 85 90 95

Lys Leu Glu Lys Asn Pro Glu Lys Glu Glu Glu His Trp Ala Arg Leu
 100 105 110

Gln Arg Tyr Ser Leu Ser Leu Gln Arg Glu Asn Phe Lys Lys
 115 120 125

<210> 1489

<211> 233

<212> PRT

<213> Homo sapiens

<400> 1489

Met Ala Leu Lys Asn Lys Phe Ser Cys Leu Trp Ile Leu Gly Leu Cys
 1 5 10 15

Leu Val Ala Thr Thr Ser Ser Lys Ile Pro Ser Ile Thr Asp Pro His
 20 25 30

Phe Ile Asp Asn Cys Ile Glu Ala His Asn Glu Trp Arg Gly Lys Val
 35 40 45

Asn Pro Pro Ala Ala Asp Met Lys Tyr Met Ile Trp Asp Lys Gly Leu
 50 55 60

Ala Lys Met Ala Lys Ala Trp Ala Asn Gln Cys Lys Phe Glu His Asn
 65 70 75 80
 Asp Cys Leu Asp Lys Ser Tyr Lys Cys Tyr Ala Ala Phe Glu Tyr Val
 85 90 95
 Gly Glu Asn Ile Trp Leu Gly Gly Ile Lys Ser Phe Thr Pro Arg His
 100 105 110
 Ala Ile Thr Ala Trp Tyr Asn Glu Thr Gln Phe Tyr Asp Phe Asp Ser
 115 120 125
 Leu Ser Cys Ser Arg Val Cys Gly His Tyr Thr Gln Leu Val Trp Ala
 130 135 140
 Asn Ser Phe Tyr Val Gly Cys Ala Val Ala Met Cys Pro Asn Leu Gly
 145 150 155 160
 Gly Ala Ser Thr Ala Ile Phe Val Cys Asn Tyr Gly Pro Ala Gly Asn
 165 170 175
 Phe Ala Asn Met Pro Pro Tyr Val Arg Gly Glu Ser Cys Ser Leu Cys
 180 185 190
 Ser Lys Glu Glu Lys Cys Val Lys Asn Leu Cys Lys Asn Pro Phe Leu
 195 200 205
 Lys Pro Thr Gly Arg Ala Pro Gln Gln Thr Ala Phe Asn Pro Phe Ser
 210 215 220
 Leu Gly Phe Leu Leu Leu Arg Ile Phe
 225 230

<210> 1490
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1490
 Met Glu Pro Val Ala Leu Leu Gln Pro Thr Trp Trp Leu Leu Asn Val
 1 5 10 15
 Thr Leu Pro Leu Val Ala Trp Ser Gly Pro Leu Ile Cys Arg Pro Leu
 20 25 30
 Leu His Gly Glu Gly Arg Gln Gly Ala Ala Cys Leu Gln Gly
 35 40 45

<210> 1491
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1491
 Met Ile Lys Ile Leu Lys Glu Ala Ile Glu Glu Thr Ser Phe Cys Ser
 1 5 10 15

Phe Trp Arg Ile Ser Phe Gln Leu Ser Ile His His Ile Phe Leu Ile
 20 25 30
 Phe Cys Ala Gln Leu Thr Thr Leu Leu Tyr Ser Thr Phe Leu Phe Ile
 35 40 45
 Pro Ile Ser Trp Phe Leu Ile Val Pro Gly Ala Val Asp Lys Thr Ile
 50 55 60
 Leu
 65

<210> 1492

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1492

Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro
 1 5 10 15
 Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Ile Glu Pro Leu Arg Ile
 20 25 30
 Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile
 35 40 45
 Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp
 50 55 60
 Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val
 65 70 75 80
 Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
 85 90 95
 Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser
 100 105 110
 Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser
 115 120 125
 Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly
 130 135 140
 Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala
 145 150 155 160
 Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val
 165 170 175
 Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val
 180 185 190
 Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr
 195 200 205
 Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly
 210 215 220

Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu
 225 230 235 240

Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser
 245 250 255

Arg

<210> 1493
 <211> 163
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any amino acid

<400> 1493
 Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
 1 5 10 15
 Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
 20 25 30
 Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
 35 40 45
 Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
 50 55 60
 Pro Glu Thr Glu Asp Val Ser Asn Arg Asn Val Val Lys Glu Val Glu
 65 70 75 80
 Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
 85 90 95
 Leu Thr Asn Gly Cys Pro Gly Gly Glu Xaa Lys Cys Val Val Arg Val
 100 105 110
 Xaa Glu Cys Arg Gly Pro Thr Asp Cys Gly Trp Gly Lys Pro Ile Ser
 115 120 125
 Glu Ser Leu Glu Ser Val Arg Leu Ala Cys Ile His Thr Ser Pro Leu
 130 135 140
 Ile Val Ser Ile Tyr Val Glu Leu Leu Arg Gln Thr Thr Ile His Tyr
 145 150 155 160
 Thr Cys Lys

| | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| <400> 1494 | | | | | | | | | | | | | | | | |
| Met | Pro | Arg | Cys | Arg | Trp | Leu | Ser | Leu | Ile | Leu | Leu | Thr | Ile | Pro | Leu | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
| Ala | Leu | Val | Ala | Arg | Lys | Asp | Pro | Lys | Lys | Asn | Glu | Thr | Gly | Val | Leu | |
| | | | 20 | | | | | 25 | | | | | 30 | | | |
| Arg | Lys | Leu | Lys | Pro | Val | Asn | Ala | Ser | Asn | Ala | Asn | Val | Lys | Gln | Cys | |
| | | 35 | | | | | 40 | | | | | 45 | | | | |
| Leu | Trp | Phe | Ala | Met | Gln | Glu | Tyr | Asn | Lys | Glu | Ser | Glu | Asp | Lys | Tyr | |
| | 50 | | | | | 55 | | | | | 60 | | | | | |
| Val | Phe | Leu | Val | Val | Lys | Thr | Leu | Gln | Ala | Gln | Leu | Gln | Val | Thr | Asn | |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Leu | Leu | Glu | Tyr | Leu | Ile | Asp | Val | Glu | Ile | Ala | Arg | Ser | Asp | Cys | Arg | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Lys | Pro | Leu | Ser | Thr | Asn | Glu | Ile | Cys | Ala | Ile | Gln | Glu | Asn | Ser | Lys | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Leu | Lys | Arg | Lys | Leu | Ser | Cys | Ser | Phe | Leu | Val | Gly | Ala | Leu | Pro | Trp | |
| | | 115 | | | | | 120 | | | | | 125 | | | | |
| Asn | Gly | Glu | Phe | Thr | Val | Met | Glu | Lys | Lys | Cys | Glu | Asp | Ala | | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | |

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<400> 1495
Met Ser Leu Leu Phe Ile Val Ser Leu Leu Glu Leu Gly Pro Met Ala
  1                               10                          15

Leu Leu Ala Glu Arg Lys Ala Met Lys Pro Ser Leu Gly Leu Arg Leu
      20                      25                      30

Glu Glu Glu Glu Glu Glu Thr Pro Phe Glu Glu Gln Arg Ala Val Ser
      35                      40                      45

Val Ile Pro Gly Val Pro Val Thr Tyr Leu
      50                      55

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888

<400> 1496

Met Tyr Leu Phe Leu Leu Cys Cys Phe Ile Ser Glu His Cys Ala Gln
 1 5 10 15
 His Ser Phe Pro His Thr Cys Pro Asn Trp Lys Thr Arg Val Leu Ser
 20 25 30
 Phe Pro Leu His Pro Cys Pro His Leu Ile His Pro Asn Asn Thr
 35 40 45

<210> 1497

<211> 208

<212> PRT

<213> Homo sapiens

<400> 1497

Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1 5 10 15
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser
 20 25 30
 Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp
 35 40 45
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro
 50 55 60
 Asn Ser Thr Asn His Val Ala Leu Arg Asp Thr Gly Asn Gln Leu Ile
 65 70 75 80
 Val Thr Met Ser Cys Leu Thr Lys Glu Asp Thr Gly Trp Tyr Trp Cys
 85 90 95
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu
 100 105 110
 Ile Val Thr Asp Asp Lys Gly Thr Leu Ala Asn Asp Phe Trp Ser Gly
 115 120 125
 Lys Asp Leu Ser Gly Asn Lys Thr Arg Ser Cys Lys Ala Pro Lys Val
 130 135 140
 Val Arg Lys Ala Asp Arg Ser Arg Thr Ser Ile Leu Ile Ile Cys Ile
 145 150 155 160
 Leu Ile Thr Gly Leu Gly Ile Ile Ser Val Ile Ser His Leu Thr Lys
 165 170 175
 Arg Arg Arg Ser Gln Arg Asn Arg Arg Val Gly Asn Thr Leu Lys Pro
 180 185 190
 Phe Ser Arg Val Leu Thr Pro Lys Glu Met Ala Pro Thr Glu Gln Met
 195 200 205

<210> 1498
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1498
 Met Lys Leu Leu Tyr Leu Phe Leu Ala Ile Leu Leu Ala Ile Glu Glu
 1 5 10 15
 Pro Val Ile Ser Gly Lys Arg His Ile Leu Arg Cys Met Gly Asn Ser
 20 25 30
 Gly Ile Cys Arg Ala Ser Cys Lys Lys Asn Glu Gln Pro Tyr Leu Tyr
 35 40 45
 Cys Arg Asn Cys Gln Ser Cys Cys Leu Gln Ser Tyr Met Arg Ile Ser
 50 55 60
 Ile Ser Gly Lys Glu Glu Asn Thr Asp Trp Ser Tyr Glu Lys Gln Trp
 65 70 75 80
 Pro Arg Leu Pro

<210> 1499
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1499
 Met Val Ser Ala Ser Val Phe Val Gly Leu Val Ile Phe Tyr Ile Ala
 1 5 10 15
 Phe Cys Leu Leu Trp Pro Leu Val Val Lys Gly Cys Thr Met Ile Arg
 20 25 30
 Trp Lys Ile Asn Asn Leu Ile Ala Ser Glu Ser Tyr Tyr Thr Tyr Ala
 35 40 45
 Ser Ile Ser Gly Ile Ser Ser Met Pro Ser Leu Arg His Ser Arg Met
 50 55 60
 Gly Ser Met Phe Ser Ser Arg Met Thr Glu Asp Arg Ala Glu Pro Lys
 65 70 75 80
 Glu Ala Val Glu Arg Gln Leu Met Thr
 85

<210> 1500
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1500
 Met Ser Gly Ile Ser Gly Cys Pro Phe Phe Leu Trp Gly Leu Leu Ala

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<210> 1501
<211> 94
<212> PRT
<213> Homo sapiens
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<210> 1502
<211> 39
<212> PRT
<213> Homo sapiens
```

891

1 5 10 15
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile
 20 25 30
 Leu Leu Ile Leu Asp Leu Glu
 35

<210> 1503
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 1503
 Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly
 1 5 10 15
 Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu
 20 25 30
 Leu Ser Leu Leu Asp Cys
 35

<210> 1504
 <211> 292
 <212> PRT
 <213> Homo sapiens

<400> 1504
 Met Gly Ile Gln Thr Ser Pro Val Leu Leu Ala Ser Leu Gly Val Gly
 1 5 10 15
 Leu Val Thr Leu Leu Gly Leu Ala Val Gly Ser Tyr Leu Val Arg Arg
 20 25 30
 Ser Arg Arg Pro Gln Val Thr Leu Leu Asp Pro Asn Glu Lys Tyr Leu
 35 40 45
 Leu Arg Leu Leu Asp Lys Thr Val Ser His His Thr Leu Gly Leu
 50 55 60
 Pro Val Gly Lys His Ile Tyr Leu Ser Thr Arg Ile Asp Gly Ser Leu
 65 70 75 80
 Val Ile Arg Pro Tyr Thr Pro Val Thr Ser Asp Glu Asp Gln Gly Tyr
 85 90 95
 Val Asp Leu Val Ile Lys Val Tyr Leu Lys Gly Val His Pro Lys Phe
 100 105 110
 Pro Glu Gly Gly Lys Met Ser Gln Tyr Leu Asp Ser Leu Lys Val Gly
 115 120 125
 Asp Val Val Glu Phe Arg Gly Pro Ser Gly Leu Leu Thr Tyr Thr Gly
 130 135 140
 Lys Gly His Phe Asn Ile Gln Pro Asn Lys Lys Ser Pro Pro Glu Pro

145 150 155 160
 Arg Val Ala Lys Lys Leu Gly Met Ile Ala Gly Gly Thr Gly Ile Thr
 165 170 175
 Pro Met Leu Gln Leu Ile Arg Ala Ile Leu Lys Val Pro Glu Asp Pro
 180 185 190
 Thr Gln Cys Phe Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Ile
 195 200 205
 Leu Arg Glu Asp Leu Glu Glu Leu Gln Ala Arg Tyr Pro Asn Arg Phe
 210 215 220
 Lys Leu Trp Phe Thr Leu Asp His Pro Pro Lys Asp Trp Ala Tyr Ser
 225 230 235 240
 Lys Gly Phe Val Thr Ala Asp Met Ile Arg Glu His Leu Pro Ala Pro
 245 250 255
 Gly Asp Asp Val Leu Val Leu Leu Cys Gly Pro Pro Pro Met Val Gln
 260 265 270
 Leu Ala Cys His Pro Asn Leu Asp Lys Leu Gly Tyr Ser Gln Lys Met
 275 280 285
 Arg Phe Thr Tyr
 290

<210> 1505

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1505

Met Ala Leu Phe Ser Cys Leu Leu Leu Leu Lys Gln Ser Asp Gly Ala
 1 5 10 15

Ser Pro Val Leu Arg Ala Leu Ala Ala Ser Cys Leu Ala Ser Pro Ala
 20 25 30

Gly Cys Cys Gly Thr Arg Lys Ala Leu Asn Gly Asn Val Gly Glu Lys
 35 40 45

Val Gly Phe Thr Phe Met Ser Phe Gln Gly Cys Asp Pro Ser Ser Pro
 50 55 60

Gly Cys Leu Cys Cys Ser Leu Leu Pro Ser Asn Ser Gln Leu Val Phe
 65 70 75 80

Ile Ser Phe Leu Val Leu Ser Gly Leu Ala
 85 90

<210> 1506

<211> 181

<212> PRT

<213> Homo sapiens

<400> 1506

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Met Met Leu Met Pro Tyr Gly Ala Leu Ile Ile Gly Phe Val Cys Gly
 1             5             10             15

Ile Ile Ser Thr Leu Gly Phe Val Tyr Leu Thr Pro Phe Leu Glu Ser
          20             25             30

Arg Leu His Ile Gln Asp Thr Cys Gly Ile Asn Asn Leu His Gly Ile
          35             40             45

Pro Gly Ile Ile Gly Gly Ile Val Gly Ala Val Thr Ala Ala Ser Ala
          50             55             60

Ser Leu Glu Val Tyr Gly Lys Glu Gly Leu Val His Ser Phe Asp Phe
          65             70             75             80

Gln Gly Phe Asn Gly Asp Trp Thr Ala Arg Thr Gln Gly Lys Phe Gln
          85             90             95

Ile Tyr Gly Leu Leu Val Thr Leu Ala Met Ala Leu Met Gly Gly Ile
          100            105            110

Ile Val Gly Leu Ile Leu Arg Leu Pro Phe Trp Gly Gln Pro Ser Asp
          115            120            125

Glu Asn Cys Phe Glu Asp Ala Val Tyr Trp Glu Met Pro Glu Gly Asn
          130            135            140

Ser Thr Val Tyr Ile Pro Glu Asp Pro Thr Phe Lys Pro Ser Gly Pro
          145            150            155            160

Ser Val Pro Ser Val Pro Met Val Ser Pro Leu Pro Met Ala Ser Ser
          165            170            175

Val Pro Leu Val Pro
          180

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<210> 1507

<211> 822

<212> PRT

<213> Homo sapiens

<400> 1507

```

Met Ala Ala Ala Val Val Val Ala Glu Gly Asp Ser Asp Ser Arg Pro
 1             5             10             15

Gly Gln Glu Leu Leu Val Ala Trp Asn Thr Val Ser Thr Gly Leu Val
          20             25             30

Pro Pro Ala Ala Leu Gly Leu Val Ser Ser Arg Thr Ser Gly Ala Val
          35             40             45

Pro Pro Lys Glu Glu Glu Leu Arg Ala Ala Val Glu Val Leu Arg Gly
          50             55             60

His Gly Leu His Ser Val Leu Glu Glu Trp Phe Val Glu Val Leu Gln
          65             70             75             80

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895

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 405 | | | | | 410 | | | | | 415 | | | | | | |
| Leu | Glu | Val | Ala | Cys | Glu | Pro | Ile | Arg | Arg | Tyr | Leu | Arg | Thr | Arg | Glu | |
| 420 | | | | | 425 | | | | | 430 | | | | | | |
| Asp | Thr | Val | Arg | Gln | Ile | Val | Ala | Gly | Leu | Thr | Gly | Asp | Ser | Asp | Gly | |
| 435 | | | | | 440 | | | | | 445 | | | | | | |
| Thr | Gly | Asp | Leu | Ala | Val | Glu | Leu | Ser | Lys | Thr | Asp | Pro | Ala | Ser | Leu | |
| 450 | | | | | 455 | | | | | 460 | | | | | | |
| Glu | Thr | Gly | Gln | Asp | Ser | Glu | Asp | Asp | Ser | Gly | Glu | Pro | Glu | Asp | Trp | |
| 465 | | | | | 470 | | | | | 475 | | | | | 480 | |
| Val | Pro | Asp | Pro | Val | Asp | Ala | Asp | Pro | Gly | Lys | Ser | Ser | Ser | Lys | Arg | |
| 485 | | | | | 490 | | | | | 495 | | | | | | |
| Arg | Ser | Ser | Asp | Ile | Ile | Ser | Leu | Leu | Val | Ser | Ile | Tyr | Gly | Ser | Lys | |
| 500 | | | | | 505 | | | | | 510 | | | | | | |
| Asp | Leu | Phe | Ile | Asn | Glu | Tyr | Arg | Ser | Leu | Leu | Ala | Asp | Arg | Leu | Leu | |
| 515 | | | | | 520 | | | | | 525 | | | | | | |
| His | Gln | Phe | Ser | Phe | Ser | Pro | Glu | Arg | Glu | Ile | Arg | Asn | Val | Glu | Leu | |
| 530 | | | | | 535 | | | | | 540 | | | | | | |
| Leu | Lys | Leu | Arg | Phe | Gly | Glu | Ala | Pro | Met | His | Phe | Cys | Glu | Val | Met | |
| 545 | | | | | 550 | | | | | 555 | | | | | 560 | |
| Leu | Lys | Asp | Met | Ala | Asp | Ser | Arg | Arg | Ile | Asn | Ala | Asn | Ile | Arg | Glu | |
| 565 | | | | | 570 | | | | | 575 | | | | | | |
| Glu | Asp | Glu | Lys | Arg | Pro | Ala | Glu | Glu | Gln | Pro | Pro | Phe | Gly | Val | Tyr | |
| 580 | | | | | 585 | | | | | 590 | | | | | | |
| Ala | Val | Ile | Leu | Ser | Ser | Glu | Phe | Trp | Pro | Pro | Phe | Lys | Asp | Glu | Lys | |
| 595 | | | | | 600 | | | | | 605 | | | | | | |
| Leu | Glu | Val | Pro | Glu | Asp | Ile | Arg | Ala | Ala | Leu | Glu | Ala | Tyr | Cys | Lys | |
| 610 | | | | | 615 | | | | | 620 | | | | | | |
| Lys | Tyr | Glu | Gln | Leu | Lys | Ala | Met | Arg | Thr | Leu | Ser | Trp | Lys | His | Thr | |
| 625 | | | | | 630 | | | | | 635 | | | | | 640 | |
| Leu | Gly | Leu | Val | Thr | Met | Asp | Val | Glu | Leu | Ala | Asp | Arg | Thr | Leu | Ser | |
| 645 | | | | | 650 | | | | | 655 | | | | | | |
| Val | Ala | Val | Thr | Pro | Val | Gln | Ala | Val | Ile | Leu | Leu | Tyr | Phe | Gln | Asp | |
| 660 | | | | | 665 | | | | | 670 | | | | | | |
| Gln | Ala | Ser | Trp | Thr | Leu | Glu | Glu | Leu | Ser | Lys | Ala | Val | Lys | Met | Pro | |
| 675 | | | | | 680 | | | | | 685 | | | | | | |
| Val | Ala | Leu | Leu | Arg | Arg | Arg | Met | Ser | Val | Trp | Leu | Gln | Gln | Gly | Val | |
| 690 | | | | | 695 | | | | | 700 | | | | | | |
| Leu | Arg | Glu | Glu | Pro | Pro | Gly | Thr | Phe | Ser | Val | Ile | Glu | Glu | Glu | Arg | |
| 705 | | | | | 710 | | | | | 715 | | | | | 720 | |
| Pro | Gln | Asp | Arg | Asp | Asn | Met | Val | Leu | Ile | Asp | Ser | Asp | Asp | Glu | Ser | |
| 725 | | | | | 730 | | | | | 735 | | | | | | |

Asp Ser Gly Met Ala Ser Gln Ala Asp Gln Lys Glu Glu Glu Leu Leu
 740 745 750
 Leu Phe Trp Thr Tyr Ile Gln Ala Met Leu Thr Asn Leu Glu Ser Leu
 755 760 765
 Ser Leu Asp Arg Ile Tyr Asn Met Leu Arg Met Phe Val Val Thr Gly
 770 775 780
 Pro Ala Leu Ala Glu Ile Asp Leu Gln Glu Leu Gln Gly Tyr Leu Gln
 785 790 795 800
 Lys Lys Val Arg Asp Gln Gln Leu Val Tyr Ser Ala Gly Val Tyr Arg
 805 810 815
 Leu Pro Lys Asn Cys Ser
 820

<210> 1508
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1508
 Met Leu Gln Ala Ala Ser Leu Ser Leu Val Thr Trp Val Val Cys Thr
 1 5 10 15
 Val Trp Leu Glu Thr Thr Val Pro Pro Ser Leu Pro Glu Pro Pro Met
 20 25 30
 Trp Pro Leu Ser Ser Asp Ser Ser Trp Ser Leu Trp Ile Ser Thr Gly
 35 40 45
 Met Ala Pro Ala Pro Ser Ser Ser Thr Arg Ser Phe Ser Val Leu Pro
 50 55 60
 Glu Ile Cys Phe Cys Leu Trp
 65 70

<210> 1509
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1509
 Met Ala Gly Val Trp Asn Thr Ile Ala Leu Trp Phe Leu Ser Val Phe
 1 5 10 15
 Gly Val Ile Ser Ala Pro Thr Thr Gly Thr Ser Pro Thr Ser Cys Arg
 20 25 30
 Cys Val Gly Pro Arg Pro Pro Gly Cys Gly Pro Ala Gly
 35 40 45

<210> 1510
 <211> 101
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any amino acid

 <400> 1510
 Met Glu Leu Glu Arg Cys Ser Val Val Leu Cys Ile Leu Ala Asn Leu
 1 5 10 15
 Ala Val Leu Arg Ala Leu Phe Leu Pro Cys Ile Ile Phe His Cys Val
 20 25 30
 Ser Asp Ser Arg Ser Val Asn Arg Glu Thr Lys Val Lys Phe Val His
 35 40 45
 Thr Ser Val His Gly Val Gly His Ser Phe Val Gln Ser Ala Phe Lys
 50 55 60
 Ala Phe Xaa Leu Val Pro Pro Glu Ala Val Pro Glu Gln Lys Asp Pro
 65 70 75 80
 Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn Pro Glu Glu Gly Lys
 85 90 95

 Gly Val Leu Val Thr
 100

<210> 1511
 <211> 77
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any amino acid

 <400> 1511
 Met Ala Ala Arg Ser Ala Leu Ala Leu Leu Leu Leu Pro Val Leu
 1 5 10 15
 Leu Leu Pro Val Gln Ser Arg Ser Glu Pro Glu Thr Thr Ala Pro Thr
 20 25 30
 Pro Thr Pro Ile Pro Gly Gly Asn Ser Ser Xaa Ser Arg Pro Leu Pro
 35 40 45
 Ser Ile Glu Leu His Ala Cys Gly Pro Tyr Pro Lys Pro Gly Leu Leu
 50 55 60
 Ile Leu Leu Ala Pro Leu Ala Leu Trp Pro Ile Leu Leu
 65 70 75

<210> 1512
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 1512
 Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg
 1 5 10 15
 Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Ala Ala Asp
 20 25 30
 Ser Lys Asp Glu Glu Val Lys Val Ala Pro Arg Arg Ser Phe Leu Asp
 35 40 45
 Phe Asp Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val
 50 55 60
 Gln Cys Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu
 65 70 75 80
 Ser Ile Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val
 85 90 95
 Leu Thr Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg
 100 105 110
 His Gln Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr
 115 120 125
 Ser Gly Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro
 130 135 140
 Leu Gln Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala
 145 150 155 160
 Ile Leu Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala
 165 170 175
 Pro His Ala Val His Pro Thr Gly Thr Lys Ala Leu
 180 185

<210> 1513
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1513
 Met Leu Leu Gly Gly Arg Leu Leu Thr Gly Leu Ala Cys Gly Val Ala
 1 5 10 15
 Ser Leu Val Ala Pro Val Ser Val Pro Ser Leu Glu Cys Pro Val Ser
 20 25 30
 Arg Pro Glu Thr Glu Gly Glu Trp Asp Lys Pro Leu Pro Arg Pro Gly
 35 40 45
 Gly Ala Ala Pro Pro Gly Gly Thr Phe Trp Val Pro Gly Leu Lys Ser

50 55 60
 Leu Arg Tyr Leu Ala Val Pro Pro Val Asp Pro Gly Lys Asp Pro Thr
 65 70 75 80
 Val Leu Ser Ile Leu His
 85

<210> 1514
 <211> 246
 <212> PRT
 <213> Homo sapiens

<400> 1514
 Met Ala Leu Leu Leu Cys Leu Val Cys Leu Thr Ala Ala Leu Ala His
 1 5 10 15
 Gly Cys Leu His Cys His Ser Asn Phe Ser Lys Lys Phe Ser Phe Tyr
 20 25 30
 Arg His His Val Asn Phe Lys Ser Trp Trp Val Gly Asp Ile Pro Val
 35 40 45
 Ser Gly Ala Leu Leu Thr Asp Trp Ser Asp Asp Thr Met Lys Glu Leu
 50 55 60
 His Leu Ala Ile Pro Ala Lys Ile Thr Arg Glu Lys Leu Asp Gln Val
 65 70 75 80
 Ala Thr Ala Val Tyr Gln Met Met Asp Gln Leu Tyr Gln Gly Lys Met
 85 90 95
 Tyr Phe Pro Gly Tyr Phe Pro Asn Glu Leu Arg Asn Ile Phe Arg Glu
 100 105 110
 Gln Val His Leu Ile Gln Asn Ala Ile Ile Glu Ser Arg Ile Asp Cys
 115 120 125
 Gln His Arg Cys Gly Lys Gln Gly Ser Val Gln Ala Glu Gly Arg Ala
 130 135 140
 Gly Gly Ser Ser Gly Pro Trp Arg Leu Arg Gly Ala Leu Ala Ala Leu
 145 150 155 160
 Val Arg Val Ser Gly Ile Phe Gln Tyr Glu Thr Ile Ser Cys Asn Asn
 165 170 175
 Cys Thr Asp Ser His Val Ala Cys Phe Gly Tyr Asn Cys Glu Ser Ser
 180 185 190
 Ala Gln Trp Lys Ser Ala Val Gln Gly Leu Leu Asn Tyr Ile Asn Asn
 195 200 205
 Trp His Lys Gln Asp Thr Ser Met Ser Leu Val Ser Pro Ala Leu Arg
 210 215 220
 Cys Leu Glu Pro Pro His Leu Ala Asn Leu Thr Leu Glu Asp Ala Ala
 225 230 235 240

Glu Cys Leu Lys Gln His
245

<210> 1515

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1515

Met Gly Pro Gln His Leu Arg Leu Val Gln Leu Phe Cys Leu Leu Gly
1 5 10 15

Ala Ile Ser Thr Leu Pro Arg Ala Gly Ala Leu Leu Cys Tyr Glu Ala
20 25 30

Thr Ala Ser Arg Phe Arg Ala Val Ala Phe His Asn Trp Lys Trp Leu
35 40 45

Leu Met Arg Asn Met Val Cys Lys Leu Gln Glu Gly Cys Glu Glu Thr
50 55 60

Leu Val Phe Ile Glu Thr Gly Thr Ala Arg Gly Val Val Gly Phe Lys
65 70 75 80

Gly Cys Ser Ser Ser Ser Ser Tyr Pro Ala Gln Ile Ser Tyr Leu Val
85 90 95

Ser Pro Pro Gly Val Ser Ile Ala Ser Tyr Ser Arg Val Cys Arg Ser
100 105 110

Tyr Leu Cys Asn Asn Leu Thr Asn Leu Glu Pro Phe Val Lys Leu Lys
115 120 125

Ala Ser Thr Pro Lys Ser Ile Thr Ser Ala Ser Cys Ser Cys Pro Thr
130 135 140

Cys Val Gly Glu His Met Lys Asp Cys Leu Pro Asn Phe Val Thr Thr
145 150 155 160

Asn Ser Cys Pro Leu Ala Ala Ser Thr Cys Tyr Ser Ser Thr Leu Lys
165 170 175

Phe Gln Ala Gly Phe Leu Asn Thr Thr Phe Leu Leu Met Gly Cys Ala
180 185 190

Arg Glu His Asn Gln Leu Leu Ala Asp Phe His His Ile Gly Ser Ile
195 200 205

Lys Val Thr Glu Val Leu Asn Ile Leu Glu Lys Ser Gln Ile Val Gly
210 215 220

Ala Ala Ser Ser Arg Gln Asp Pro Ala Trp Gly Val Val Leu Gly Leu
225 230 235 240

Leu Phe Ala Phe Arg Asp
245

<210> 1516
 <211> 84
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any amino acid

<400> 1516
 Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala
 1 5 10 15
 Asn Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Val Glu Met Gly Phe
 20 25 30
 Arg Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu Ala Ser Ser Asn Leu
 35 40 45
 Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His
 50 55 60
 Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro
 65 70 75 80
 Arg Val Ser Gly

<210> 1517
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1517
 Met Leu Gln Glu Val Lys Leu Asp Phe Leu Trp Leu Leu Asn Leu Pro
 1 5 10 15
 Leu Ile Leu Leu Phe Ser Ile Leu Glu Ser Ser Met Lys Ile Cys Thr
 20 25 30
 Asn Ala Met Phe Thr Arg Thr Gly
 35 40

<210> 1518
 <211> 110
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any amino acid

<400> 1518
 Met Phe Leu Ala Ser Trp Leu Leu Phe Cys Ile Val Ala Pro Lys Asp
 1 5 10 15

Asp Ala His Leu Ser Phe Ile Gln Cys Lys Asp Ile Trp Lys Asp Asn
 20 25 30
 Arg Lys Tyr Ser Cys Phe His Phe Lys Ser Asp Gln Leu Leu Glu Leu
 35 40 45
 Ala Ser Lys Ala Cys Thr Ser Phe Gln Ala Gln Ser Arg Ser Phe Thr
 50 55 60
 Ala Gly Ala Val Pro Ser Glu His Pro Glu Leu Pro Cys Gly Ser Gln
 65 70 75 80
 Gln Leu Cys Cys Gly Cys Thr Ala Arg Leu Gly Gly Xaa Trp Ile Gly
 85 90 95
 Ala Ser Arg Cys Gly Ser Gly Ser Ala Phe Leu Ala Ser Pro
 100 105 110

<210> 1519
 <211> 59
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any amino acid

<400> 1519
 Met Trp Thr Ala Arg Arg Cys Thr Glu Thr Val Ala Val Ser Leu Arg
 1 5 10 15
 Ile Phe Pro Leu Val Leu Ala Met Pro Leu Gln Gly Lys Cys Thr Ser
 20 25 30
 Thr Cys Gln Arg Lys Pro Leu Leu Val Phe Ile Phe Val Val Asn
 35 40 45
 Phe Leu Tyr Ile Pro Xaa Ala Ala Phe Leu His
 50 55

<210> 1520
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 1520
 Met Lys Tyr Leu Leu Phe Leu Val Phe Cys Leu Ser Tyr Val Lys Asp
 1 5 10 15
 Leu Asn Ile Phe Asp Leu Leu Tyr
 20

<210> 1521

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1521

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Met Cys Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
 1             5             10             15
Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
          20             25             30
Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
          35             40             45
Leu Pro Arg Thr Asn Leu Lys Gly
          50             55

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<210> 1522

<211> 61

<212> PRT

<213> Homo sapiens

<400> 1522

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Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys
 1             5             10             15
Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser
          20             25             30
Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu
          35             40             45
Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu
          50             55             60

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<210> 1523

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1523

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Met Gln Glu Cys Leu Leu His Gly Cys Cys Cys Tyr Leu Leu Arg Leu
 1             5             10             15
Gly Val Leu Gly Thr Val Gln Cys Ile Ser Thr Trp Leu Ile Leu Thr
          20             25             30
Ala Asn Glu Gln His Arg Leu Lys Glu Thr Ser Asn Ser Gln Ser Pro
          35             40             45
Ala Val Ser Arg Ala
          50

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<210> 1524

<211> 231

<212> PRT

<213> Homo sapiens

<400> 1524

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Met Trp Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu
 1           5           10           15

Leu Thr His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu
          20           25           30

Ala Ala Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His
      35           40           45

Gly Gly Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser
 50           55           60

Leu Pro Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys
 65           70           75           80

Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser
          85           90           95

Leu Ser Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val
          100          105          110

Val Arg Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr
      115          120          125

Arg Arg Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg
      130          135          140

Asn Cys Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val
      145          150          155          160

Ser Phe Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln
          165          170          175

Val Lys Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln
      180          185          190

Leu Val Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys
      195          200          205

Pro Val Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val
      210          215          220

Pro Cys Leu Ser Val Ser Leu
      225          230

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<210> 1525

<211> 50

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any amino acid

 <400> 1525
 Met Asn Phe Leu Val Phe Leu Ser Leu Ser Ser Ser Leu Val Ser Ala
 1 5 10 15

 Ala Gly Pro Arg Phe Pro Ser Arg Glu Glu Arg Gly Val Gly Gly Val
 20 25 30

 Val Leu Ile Lys Ser Glu Asp Met Thr Leu Xaa Glu Arg Ser Lys Gly
 35 40 45

 Ser Xaa
 50

<210> 1526
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1526
 Met Cys Gly Leu Val Ile Leu Trp Pro Cys Ile Met Thr Leu Phe Ser
 1 5 10 15

 Ser Leu Ser Thr Gly Asp Val Leu Leu Pro Cys Lys Ile Leu Val Gly
 20 25 30

 Leu Arg Val Phe Ile Gly Ala Arg Val
 35 40

<210> 1527
 <211> 32
 <212> PRT

 <213> Homo sapiens

<400> 1527
 Met Pro Val Pro Leu Trp Leu Val Leu Trp Phe Cys Phe Leu Leu Tyr
 1 5 10 15

 Val Ala Ser Arg Arg Thr Phe Gly Leu Ala Asn Tyr Met Pro Leu Pro
 20 25 30

<210> 1528
 <211> 362
 <212> PRT
 <213> Homo sapiens

<400> 1528

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
 1 5 10 15
 Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
 20 25 30
 Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
 35 40 45
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
 50 55 60
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
 65 70 75 80
 Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
 85 90 95
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
 100 105 110
 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
 115 120 125
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
 130 135 140
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
 145 150 155 160
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
 165 170 175
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
 180 185 190
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly
 195 200 205
 Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
 210 215 220
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro
 225 230 235 240
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro
 245 250 255
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly
 260 265 270
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala
 275 280 285
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp
 290 295 300
 Ser Gln Ala Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly
 305 310 315 320
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu

325 330 335

Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly
 340 345 350

Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu
 355 360

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<210> 1529
<211> 37
<212> PRT
<213> Homo sapiens
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<400> 1529
Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys
  1                      5                      10                      15

Trp Cys Trp Leu Cys Arg Glu Ala Leu Glu Trp Leu Cys Gly Ala Val
      20                      25                      30

Ser Ala Gly Pro Ala
      35

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<210> 1530
<211> 318
<212> PRT
<213> Homo sapiens
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<400> 1530
Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser
  1          5          10          15

Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val
  20          25          30

Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala
  35          40          45

Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val
  50          55          60

His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln
  65          70          75          80

Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg
  85          90          95

Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr
 100          105          110

Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu
 115          120          125

Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Ala Gly
 130          135          140

Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe

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145 150 155 160
 Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser
 165 170 175
 Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu
 180 185 190
 Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met
 195 200 205
 Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly
 210 215 220
 Asp Trp Arg Arg Lys His Gly Gln Ala Gly Lys Arg Lys Tyr Ser Ser
 225 230 235 240
 Ser His Ile Tyr Asp Ser Phe Pro Ser Leu Ser Phe Met Asp Phe Tyr
 245 250 255
 Ile Leu Arg Pro Val Gly Pro Cys Arg Ala Lys Leu Val Met Gly Thr
 260 265 270
 Leu Lys Leu Gln Ile Leu Gly Glu Val His Phe Val Glu Lys Pro His
 275 280 285
 Ser Leu Leu Gln Ile Ser Gly Gly Ser Thr Thr Leu Lys Lys Gly Pro
 290 295 300
 Asn Pro Trp Ser Phe Pro Ser Pro Cys Ala Leu Phe Pro Thr
 305 310 315

<210> 1531
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 1531
 Met Ser Gln Leu Ser Arg Thr Ser Leu Ser Leu Leu Leu Thr Leu Leu
 1 5 10 15
 Val Leu Trp Gly Ser Ser Cys Cys Leu Pro Ile Trp Cys Leu Pro Asn
 20 25 30
 Arg His Arg Leu Leu Lys Leu Ser Phe Leu Leu Phe Ser Pro Asp Ile
 35 40 45
 Pro Tyr Leu Ser His Thr His Pro Asn Asn Ile Ser Cys Ser Val Leu
 50 55 60
 Ser Leu Arg Gln His Leu Asn Phe Thr Gln Pro Gly Ala Leu Phe Thr
 65 70 75 80
 Cys Leu Val Gln Ile Gln Phe Gly Leu Ile Leu Gln Pro Cys Ile Ser
 85 90 95
 Lys Trp Gly Leu Gly
 100

<210> 1532
 <211> 85
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any amino acid

 <400> 1532
 Met Gly Met Pro Leu Val Thr Val Thr Ala Ala Thr Phe Pro Thr Leu
 1 5 10 15

 Ser Cys Pro Pro Arg Ala Trp Pro Glu Val Glu Ala Pro Glu Ala Pro
 20 25 30

 Ala Leu Pro Val Val Pro Glu Leu Pro Glu Val Pro Met Glu Met Pro
 35 40 45

 Leu Val Leu Pro Pro Glu Leu Glu Leu Leu Ser Leu Glu Ala Val His
 50 55 60

 Arg Tyr Gln Xaa Gly Gly Thr Leu Met Gly Trp Thr Arg Ala Glu Ala
 65 70 75 80

 Ser Ala Asn Gly Ser
 85

<210> 1533
 <211> 111
 <212> PRT
 <213> Homo sapiens

 <400> 1533
 Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala
 1 5 10 15

 Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val
 20 25 30

 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp
 35 40 45

 Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln
 50 55 60

 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala
 65 70 75 80

 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala
 85 90 95

 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu
 100 105 110

<210> 1534
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1534
 Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
 1 5 10 15
 Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
 20 25 30
 Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
 35 40 45
 Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
 50 55 60
 Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe
 65 70 75 80
 Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu
 85 90 95
 Asp Lys Gly Trp Asp Leu
 100

<210> 1535
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 1535
 Met Phe Phe Leu Gly Ala Val Leu Cys Leu Ser Phe Ser Trp Leu Phe
 1 5 10 15
 His Thr Val Tyr Cys His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys
 20 25 30
 Leu Asp Tyr Ser Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro
 35 40 45
 Trp Leu Tyr Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr
 50 55 60
 Leu Ser Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln
 65 70 75 80
 Trp Asp Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val
 85 90 95
 Phe Leu Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe Thr
 100 105 110
 Ile Ala Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met Gly Trp
 115 120 125
 Phe Phe Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly Leu Tyr Ala

130 135 140
 Ala Arg Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe Asp Ile Trp Phe
 145 150 155 160
 Gln Ser His Gln Ile Phe His Val Leu Val Val Ala Ala Ala Phe Val
 165 170 175
 His Phe Tyr Gly Val Ser Asn Leu Gln Glu Phe Arg Tyr Gly Leu Glu
 180 185 190
 Gly Gly Cys Thr Asp Asp Thr Leu Leu
 195 200

<210> 1536
 <211> 102
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any amino acid

<400> 1536
 Met Gly Arg Arg Ser Gly Leu Leu Gly Leu Arg Pro Gly Arg Ser Arg
 1 5 10 15
 Trp Arg Trp Ser Gly Ser Val Trp Val Arg Ser Val Leu Leu Leu Leu
 20 25 30
 Gly Gly Leu Arg Ala Ser Ala Thr Ser Thr Pro Val Ser Leu Gly Ser
 35 40 45
 Ser Pro Pro Cys Arg His His Val Pro Ser Asp Thr Glu Val Ile Asn
 50 55 60
 Lys Val His Leu Lys Ala Asn His Val Val Lys Arg Asp Val Asp Glu
 65 70 75 80
 His Leu Arg Ile Lys Thr Val Tyr Asp Lys Xaa Xaa Xaa Ser Cys Ser
 85 90 95
 Leu Arg Lys Arg Ile Leu
 100

<210> 1537

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1537

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Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1              5              10              15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
          20              25              30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
          35              40              45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
          50              55              60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65              70              75

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<210> 1538

<211> 42

<212> PRT

<213> Homo sapiens

<400> 1538

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Met Met Leu Gly Leu Arg Gln Lys Leu Thr Thr Ser Leu Thr Ser Ala
 1              5              10              15

Ala Ala Leu Thr Cys Val Leu Leu Leu Ser Met Thr Gly Met Thr Thr
          20              25              30

Ser Ser Ser Arg Ser Val Leu Trp Lys Thr
          35              40

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<210> 1539

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1539

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Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser
 1              5              10              15

Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser
          20              25              30

His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Arg Phe Tyr Val
          35              40              45

Pro Trp Glu Ala Ser Val Val Thr Phe Phe Ala Ala Gly Ser Ala Lys
          50              55              60

Met Ser Cys Gln Ser Trp Leu Ala Pro
 65              70

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<210> 1540
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1540
 Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser
 1 5 10 15
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu
 20 25 30
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu
 35 40 45
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu
 50 55 60
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys
 65 70 75 80
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly
 85 90 95
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Arg Val Ser
 100 105 110
 Leu Ser Ala Pro Pro Pro Pro Tyr Ser Glu Val Ile Leu Lys Pro Ser
 115 120 125
 Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Pro Tyr Ser Phe Arg Pro
 130 135 140
 Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala Phe
 145 150 155

<210> 1541
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1541
 Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp
 1 5 10 15
 Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe
 20 25 30
 Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg
 35 40 45
 Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile
 50 55 60
 Pro Ser Phe Tyr
 65

<210> 1542
 <211> 151
 <212> PRT
 <213> Homo sapiens

 <400> 1542
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
 65 70 75 80
 Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
 85 90 95
 Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
 100 105 110
 Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
 115 120 125
 Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln
 130 135 140
 Asp His Ile Tyr His Pro Gln
 145 150

<210> 1543
 <211> 506
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (65)

<223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (423)
 <223> Xaa equals any amino acid

<220>

<221> SITE

<222> (425)

<223> Xaa equals any amino acid

<400> 1543

```

Met Gly Met Arg Arg His Ser Leu Met Leu Leu Pro Trp Trp Leu Gly
 1           5           10           15

Ala Ala Gly Arg Lys Glu Cys His Arg Glu Gln Leu Val Ala Ala Val
      20           25           30

Glu Val Thr Glu Gln Glu Thr Lys Val Pro Lys Lys Thr Val Ile Ile
      35           40           45

Glu Glu Thr Ile Thr Thr Val Val Lys Ser Pro Arg Gly Gln Arg Arg
      50           55           60

Xaa Pro Ser Lys Ser Pro Ser Arg Ser Pro Ser Arg Cys Ser Ala Ser
 65           70           75           80

Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu Tyr Leu Pro Gly
      85           90           95

Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly Gln Lys Pro Xaa
      100          105          110

Val Pro Thr Leu Tyr Val Thr Glu Ala Glu Ala His Ser Pro Ala Leu
      115          120          125

Pro Gly Leu Ser Gly Pro Gln Pro Lys Trp Val Glu Val Glu Glu Thr
      130          135          140

Ile Glu Val Arg Val Lys Lys Met Gly Pro Gln Gly Val Ser Pro Thr
      145          150          155          160

Thr Glu Val Pro Arg Ser Ser Ser Gly His Leu Phe Thr Leu Pro Gly
      165          170          175

Ala Thr Pro Gly Gly Asp Pro Asn Ser Asn Asn Ser Asn Asn Lys Leu
      180          185          190

Leu Ala Gln Glu Ala Trp Ala Gln Gly Thr Ala Met Val Gly Val Arg
      195          200          205

Glu Pro Leu Val Phe Arg Val Asp Ala Arg Gly Ser Val Asp Trp Ala
      210          215          220

Ala Ser Gly Met Gly Ser Leu Glu Glu Glu Gly Thr Met Glu Glu Ala
      225          230          235          240

Gly Glu Glu Glu Gly Glu Asp Gly Asp Ala Phe Val Thr Glu Glu Ser
      245          250          255

Gln Asp Thr His Ser Leu Gly Asp Arg Asp Pro Lys Ile Leu Thr His
      260          265          270

Asn Gly Arg Met Leu Thr Leu Ala Asp Leu Glu Asp Tyr Val Pro Gly
      275          280          285

Glu Gly Glu Thr Phe His Cys Gly Gly Pro Gly Pro Gly Ala Pro Asp
      290          295          300

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Asp Pro Pro Cys Glu Val Ser Val Ile Gln Arg Glu Ile Gly Glu Pro
 305 310 315 320
 Thr Val Gly Ser Leu Cys Cys Ser Ala Trp Gly Met His Trp Val Pro
 325 330 335
 Glu Ala Leu Ser Ala Ser Leu Gly Leu Ser Pro Val Gly Arg His His
 340 345 350
 Arg Asp Pro Arg Ser Val Ala Leu Arg Ala Pro Pro Ser Ser Cys Gly
 355 360 365
 Arg Pro Arg Leu Gly Leu Trp Ala Val Leu Pro Gly Arg Ser Leu Ser
 370 375 380
 Ala Pro Ala Ser Gly Val Leu Arg Thr Val Ala Arg Ala Ala Ser Pro
 385 390 395 400
 Gln Ser Phe Pro Pro Arg Pro Ser Thr Ser Gly Gln Trp Gly Arg Arg
 405 410 415
 Ser Pro Phe Thr Ser Val Xaa Gly Xaa Gly Pro Ser Tyr Leu Thr Gln
 420 425 430
 Leu Gln Pro Gly Gly Leu Gly Gly Ala Cys Asn Val Gly Met Thr Gly
 435 440 445
 Ser Lys Thr Ser Ala Leu Gly Cys Phe Leu Ser Ala Trp Gln Glu Pro
 450 455 460
 Gln Asp Cys Gly Arg Arg Met Trp Pro Trp Ala Phe Val Leu Phe Pro
 465 470 475 480
 His Gly Pro Gly Pro Ser Leu Leu Ala Pro Ala Thr Ala Ala Arg Pro
 485 490 495
 Asp Met Ala Leu Pro Leu Leu Gln Ser Trp
 500 505

<210> 1544

<211> 334

<212> PRT

<213> Homo sapiens

<400> 1544

Met Phe Gln Cys Gly Leu Leu Gln Gln Leu Cys Thr Ile Leu Met Ala
 1 5 10 15
 Thr Gly Val Pro Ala Asp Ile Leu Thr Glu Thr Ile Asn Thr Val Ser
 20 25 30
 Glu Val Ile Arg Gly Cys Gln Val Asn Gln Asp Tyr Phe Ala Ser Val
 35 40 45
 Asn Ala Pro Ser Asn Pro Pro Arg Pro Ala Ile Val Val Leu Leu Met
 50 55 60
 Ser Met Val Asn Glu Arg Gln Pro Phe Val Leu Arg Cys Ala Val Leu

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<210> 1545
<211> 522
<212> PRT
<213> Homo sapiens
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<400> 1545
Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val
1 5 10 15

Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln
 20 25 30
 Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile
 35 40 45
 Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala
 50 55 60
 Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp
 65 70 75 80
 Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser
 85 90 95
 Ser Leu Gln Asn Asn Glu Gln Pro Ser Leu Ala Thr Ser Ser Asn Gln
 100 105 110
 Thr Ser Met Gln Asp Glu Gln Pro Ser Asp Ser Phe Gln Gly Gln Ala
 115 120 125
 Ala Gln Ser Gly Val Trp Asn Asp Asp Ser Met Leu Gly Pro Ser Gln
 130 135 140
 Asn Phe Glu Ala Glu Ser Ile Gln Asp Asn Ala His Met Ala Glu Gly
 145 150 155 160
 Thr Gly Phe Tyr Pro Ser Glu Pro Met Leu Cys Ser Glu Ser Val Glu
 165 170 175
 Gly Gln Val Pro His Ser Leu Glu Thr Leu Tyr Gln Ser Ala Asp Cys
 180 185 190
 Ser Asp Ala Asn Asp Ala Leu Ile Val Leu Ile His Leu Leu Met Leu
 195 200 205
 Glu Ser Gly Tyr Ile Pro Gln Gly Thr Glu Ala Lys Ala Leu Ser Met
 210 215 220
 Pro Glu Lys Trp Lys Leu Ser Gly Val Tyr Lys Leu Gln Tyr Met His
 225 230 235 240
 Pro Leu Cys Glu Gly Ser Ser Ala Thr Leu Thr Cys Val Pro Leu Gly
 245 250 255
 Asn Leu Ile Val Val Asn Ala Thr Leu Lys Ile Asn Asn Glu Ile Arg
 260 265 270
 Ser Val Lys Arg Leu Gln Leu Leu Pro Glu Ser Phe Ile Cys Lys Glu
 275 280 285
 Lys Leu Gly Glu Asn Val Ala Asn Ile Tyr Lys Asp Leu Gln Lys Leu
 290 295 300
 Ser Arg Leu Phe Lys Asp Gln Leu Val Tyr Pro Leu Leu Ala Phe Thr
 305 310 315 320
 Arg Gln Ala Leu Asn Leu Pro Asp Val Phe Gly Leu Val Val Leu Pro
 325 330 335
 Leu Glu Leu Lys Leu Arg Ile Phe Arg Leu Leu Asp Val Arg Ser Val

340 345 350
 Leu Ser Leu Ser Ala Val Cys Arg Asp Leu Phe Thr Ala Ser Asn Asp
 355 360 365
 Pro Leu Leu Trp Arg Phe Leu Tyr Leu Arg Asp Phe Arg Asp Asn Thr
 370 375 380
 Val Arg Val Gln Asp Thr Asp Trp Lys Glu Leu Tyr Arg Lys Arg His
 385 390 395 400
 Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val Met Leu Leu Pro
 405 410 415
 Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro Leu His Pro Arg
 420 425 430
 Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile Gly Gly Glu Tyr
 435 440 445
 Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro Ile Ser Ser Leu
 450 455 460
 Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro Pro Leu Arg Pro
 465 470 475 480
 Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn Pro Ile Leu Pro
 485 490 495
 Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg Pro Ser Arg Gly
 500 505 510
 Arg Pro Thr Asp Gly Arg Leu Ser Phe Met
 515 520

<210> 1546
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 1546
 Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro
 1 5 10 15
 Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val
 20 25 30
 Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe
 35 40 45
 Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala
 50 55 60
 Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Met Arg Leu Cys Trp
 65 70 75 80
 Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln
 85 90 95

Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Leu
 100 105 110
 Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg
 115 120 125
 His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr
 130 135 140
 Val Thr Ala Tyr Thr Ala Gly Pro Phe Thr Ser Ala Phe Phe Asn Pro
 145 150 155 160
 Ala Leu Ala Ala Ser Val Thr Phe Ala Cys Ser Asp Thr Pro Tyr Trp
 165 170 175
 Ser Thr Cys Arg Cys Thr Gly Trp Ala Leu
 180 185

<210> 1547
 <211> 168
 <212> PRT
 <213> Homo sapiens

<400> 1547
 Met Val Thr Phe Ile Thr Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1 5 10 15
 Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30
 Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Ser Arg
 35 40 45
 Leu His Gly Gln Pro Asn Cys Gly Glu Thr Arg Pro Trp Gly His Gly
 50 55 60
 Ser Leu Gln His His Arg Ser Asn Val Phe Asp Ile Leu Val Gly Leu
 65 70 75 80
 Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser Thr
 85 90 95
 Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu Leu
 100 105 110
 Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp Arg
 115 120 125
 Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile Phe
 130 135 140
 Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val Asn
 145 150 155 160
 Leu Pro Met Cys Arg Glu Asp Asp
 165

<210> 1548
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1548
 Met Met Lys Tyr Phe Phe Asp Val Val Val Phe Leu Thr Phe Phe Leu
 1 5 10 15
 Val Phe Ser Leu Ser Ile Phe Leu Ser Asp Glu Glu Phe Pro Val Ser
 20 25 30
 Arg Thr Gln Asn Ile Gly Leu Cys His Phe Asn Pro Ser Phe Ser Glu
 35 40 45

<210> 1549
 <211> 168
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any amino acid

<400> 1549
 Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
 1 5 10 15
 Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
 20 25 30
 Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val
 35 40 45
 Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
 50 55 60
 Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
 65 70 75 80
 Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
 85 90 95
 Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly
 100 105 110
 Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg
 115 120 125
 Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu
 130 135 140
 Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr
 145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys
165

<210> 1550
<211> 43
<212> PRT
<213> Homo sapiens

<400> 1550
Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr
1 5 10 15
Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val
20 25 30
Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys
35 40

<210> 1551
<211> 212
<212> PRT
<213> Homo sapiens

<400> 1551
Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
1 5 10 15
Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
20 25 30
Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
35 40 45
Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
50 55 60
Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val
65 70 75 80
Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Glu Glu Lys Asn Ile Ser
85 90 95
Phe Phe Ile Leu His Phe Glu Pro Val Leu Pro Asn Asp Asn Gly Ser
100 105 110
Tyr Arg Cys Ser Ala Asn Phe Gln Ser Asn Leu Ile Glu Ser His Ser
115 120 125
Thr Thr Leu Tyr Val Thr Gly Glu Phe Ser Thr Pro Arg Pro Ser Asp
130 135 140
Ile Phe Leu Ile Met Phe Pro Gly Arg Gly Gly Phe Ser Phe Ser Ser
145 150 155 160
Asp Tyr Val Arg Lys Pro Thr Pro Ile Ala His Leu Lys Ser Ala Thr
165 170 175

Pro His Arg Leu Leu Cys Ala Ser Val Tyr Ile Cys Val Cys Met Cys
 180 185 190

Ala Phe Glu Val Ser Glu Ile Glu Glu Ser Arg Glu Ile Asp Ser Lys
 195 200 205

Ser Tyr Cys Phe
 210

<210> 1552
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1552
 Met Gly Pro Leu Trp Gly Ala Pro Leu Arg Ala Trp Ala Ala Gly Ser
 1 5 10 15

Val Gly Cys Pro Cys Cys Leu Ser Cys Ala Ser Pro Ser Ser Ile Ser
 20 25 30

Ser Ala Gly Asp Pro Leu Ala Ser Cys Ser Thr Cys Gly Ser Thr Trp
 35 40 45

Glu Ile Pro Leu Thr Trp Met Thr Met Asp His Leu Leu Val Arg Tyr
 50 55 60

Tyr Leu Ser Gln Ala Arg Trp Cys Thr Thr Gly
 65 70 75

<210> 1553
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1553
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1 5 10 15

Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
 20 25 30

Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
 35 40 45

Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
 50 55 60

Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
 65 70 75 80

Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
 85 90 95

Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
 100 105 110

Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
 115 120 125

Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
 130 135 140

Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
 145 150 155 160

Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
 165 170 175

Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
 180 185

<210> 1554
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1554
 Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe
 1 5 10 15

Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser
 20 25 30

Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys
 35 40 45

Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala
 50 55 60

Phe Pro Ile Ser Arg Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser
 65 70 75 80

Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr
 85 90 95

Ser Phe Ser Val Pro Cys Arg Val Lys
 100 105

<210> 1555
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1555
 Met Gly Ser Phe Leu His Pro Gln Trp His Leu Leu Ile Thr Phe Cys
 1 5 10 15

Ala Val Leu Gly Lys Gly Leu His Ser Asp Pro Ser Arg Pro Phe Glu
 20 25 30

His Gly Gly Ala Leu Gly Lys Val Pro Arg Gly Arg Ser Thr Leu Leu
 35 40 45

Ser Lys Glu Val Leu Leu Thr Leu Pro Pro Cys Leu His Val Ser Val
 50 55 60

Gly Arg Lys
 65

<210> 1556
 <211> 302
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (262)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (279)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (294)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (295)
 <223> Xaa equals any amino acid

<400> 1556
 Met Leu Leu Leu Trp Lys Asn Phe Met Tyr Arg Arg Arg Gln Pro Val
 1 5 10 15

Gln Leu Leu Val Glu Leu Leu Trp Pro Leu Phe Leu Phe Phe Ile Leu
 20 25 30

Val Ala Val Arg His Ser His Pro Pro Leu Glu His His Glu Cys His
 35 40 45

Phe Pro Asn Lys Pro Leu Pro Ser Ala Gly Thr Val Pro Trp Leu Gln
 50 55 60

Gly Leu Ile Cys Asn Val Asn Asn Thr Cys Phe Pro Gln Leu Thr Pro
 65 70 75 80

Gly Glu Glu Pro Gly Arg Leu Ser Asn Phe Asn Asp Ser Leu Val Ser
 85 90 95

Arg Leu Leu Ala Asp Ala Arg Thr Val Leu Gly Gly Ala Ser Ala His
 100 105 110

Arg Thr Leu Ala Gly Leu Gly Lys Leu Ile Ala Thr Leu Arg Ala Ala
 115 120 125

Arg Ser Thr Ala Gln Pro Gln Pro Thr Lys Gln Ser Pro Leu Glu Pro
 130 135 140

Pro Met Leu Asp Val Ala Glu Leu Leu Thr Ser Leu Leu Arg Thr Glu
 145 150 155 160
 Ser Leu Gly Leu Ala Leu Gly Gln Ala Gln Glu Pro Leu His Ser Leu
 165 170 175
 Leu Glu Ala Ala Glu Asp Leu Ala Gln Glu Leu Leu Ala Leu Arg Ser
 180 185 190
 Leu Val Glu Leu Arg Ala Leu Leu Gln Arg Pro Arg Gly Thr Ser Gly
 195 200 205
 Pro Leu Glu Leu Leu Ser Glu Ala Leu Cys Ser Val Arg Gly Pro Ser
 210 215 220
 Ser Thr Val Gly Pro Ser Leu Asn Trp Tyr Glu Ala Ser Asp Leu Met
 225 230 235 240
 Glu Leu Val Gly Gln Glu Pro Glu Ser Ala Cys Arg Gln Gln Leu Ser
 245 250 255
 Pro Leu Leu Gly Ala Xaa Trp Ser Leu Asp Ser Thr Arg Cys Pro Leu
 260 265 270
 Val Trp Asn Ala Glu Ala Xaa Ser Ser Glu Val Leu Leu Thr Asp His
 275 280 285
 Phe Thr Glu Val Met Xaa Xaa Glu Arg Leu Gln Ser Tyr Leu
 290 295 300

<210> 1557
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1557
 Met Leu Leu Trp Trp Gln Cys Leu Cys Cys His Ala Val Leu Glu Pro
 1 5 10 15
 Ala Ala Thr Ala Met Pro Glu Asp Ala Ala Pro Ser Ser Leu Pro Val
 20 25 30
 Pro Pro Asn Met Thr Ser Ser Arg Phe His Tyr Phe Trp Thr Leu Leu
 35 40 45
 Gln Ile Lys Leu Thr Gln Phe Tyr Ser Lys Pro Arg Ser Leu Ser Ala
 50 55 60
 Thr Pro Glu Lys Asn Ile Gly Leu Gln Glu Pro Glu Arg Arg Glu Arg
 65 70 75 80
 Phe Thr Gly Glu Ser Cys Arg Trp Glu Leu Lys Ser Gln Val Met Ser
 85 90 95
 Leu Pro His Gln Lys Leu Thr Arg Met Tyr Thr Met Pro Leu
 100 105 110

<210> 1558
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1558
 Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro
 1 5 10 15
 Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser
 20 25 30
 Val Ile Thr Asp Asn Leu Cys Leu
 35 40

<210> 1559
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 1559
 Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Cys
 1 5 10 15
 Leu Ala Val Thr Arg Pro Ser Trp Arg Leu Gly Cys Ala Ala Arg Pro
 20 25 30
 Gly Pro Pro Leu Leu Leu Ala Val Trp Leu Ala Ala Leu Leu Leu Ala
 35 40 45
 Val Pro Ala Ala Val Tyr Arg His Leu Trp Arg Asp Arg Val Cys Gln
 50 55 60
 Leu Cys His Pro Ser Pro Val His Ala Ala Ala His Leu Ser Leu Glu
 65 70 75 80
 Thr Leu Thr Ala Phe Val Leu Pro Phe Gly Leu Met Leu Gly Cys Tyr
 85 90 95
 Ser Val Thr Leu Ala Arg Leu Arg Gly Ala Arg Trp Gly Ser Gly Arg
 100 105 110
 His Gly Ala Arg Val Gly Arg Leu Val Ser Ala Ile Val Leu Pro Ser
 115 120 125
 Ala Cys Ser Gly Pro Pro Thr Thr Gln Ser Thr Phe Cys Arg Arg Ser
 130 135 140
 Gln Arg Trp Leu His Arg Lys Gly Pro Trp Arg Ser Trp Ala Glu Pro
 145 150 155 160
 Ala Arg Arg Arg Glu Arg Glu Leu Arg Pro Trp Pro Ser Ser Val Leu
 165 170 175
 Ala Ser Thr Arg Cys Ser Thr Ser Ser Pro Leu Glu Ile Cys Cys Pro
 180 185 190
 Gly Gln Val Pro Val Ser Ser Arg Gly Ser Ser Lys Ala Leu Gly Arg
 195 200 205

Pro Glu Gly
210

<210> 1560
<211> 90
<212> PRT
<213> Homo sapiens

<400> 1560
Met Tyr Leu Leu Cys Trp Leu Tyr Ile Met Gly Val Leu Gly Ala Ser
1 5 10 15
Cys Asn Trp His Val Gly Val Pro Phe Pro Gly Thr His Trp Pro Arg
20 25 30
Ser Gln Asn His Leu Leu Trp Val Tyr Asn His Leu Asn Glu Leu Pro
35 40 45
Val Pro Ala Gly Arg Ser Ser Glu Gln Leu Tyr Leu Gly Tyr Thr Glu
50 55 60
Lys Leu Cys Ile Trp Ile Ser Cys Tyr Leu Ala Ile Arg Ile Thr Glu
65 70 75 80
Ile Gln Gly Ser Arg Val Ile Leu Met Ala
85 90

<210> 1561
<211> 414
<212> PRT
<213> Homo sapiens

<400> 1561
Met Asn Pro Thr Leu Gly Leu Ala Ile Phe Leu Ala Val Leu Leu Thr
1 5 10 15
Val Lys Gly Leu Leu Lys Pro Ser Phe Ser Pro Arg Asn Tyr Lys Ala
20 25 30
Leu Ser Glu Val Gln Gly Trp Lys Gln Arg Met Ala Ala Lys Glu Leu
35 40 45
Ala Arg Gln Asn Met Asp Leu Gly Phe Lys Leu Leu Lys Lys Leu Ala
50 55 60
Phe Tyr Asn Pro Gly Arg Asn Ile Phe Leu Ser Pro Leu Ser Ile Ser
65 70 75 80
Thr Ala Phe Ser Met Leu Cys Leu Gly Ala Gln Asp Ser Thr Leu Asp
85 90 95
Glu Ile Lys Gln Gly Phe Asn Phe Arg Lys Met Pro Glu Lys Asp Leu
100 105 110
His Glu Gly Phe His Tyr Ile Ile His Glu Leu Thr Gln Lys Thr Gln
115 120 125

Asp Leu Lys Leu Ser Ile Gly Asn Thr Leu Phe Ile Asp Gln Arg Leu
 130 135 140
 Gln Pro Gln Arg Lys Phe Leu Glu Asp Ala Lys Asn Phe Tyr Ser Ala
 145 150 155 160
 Glu Thr Ile Leu Thr Asn Phe Gln Asn Leu Glu Met Ala Gln Lys Gln
 165 170 175
 Ile Asn Asp Phe Ile Ser Gln Lys Thr His Gly Lys Ile Asn Asn Leu
 180 185 190
 Ile Glu Asn Ile Asp Pro Gly Thr Val Met Leu Leu Ala Asn Tyr Ile
 195 200 205
 Phe Phe Arg Ala Arg Trp Lys His Glu Phe Asp Pro Asn Val Thr Lys
 210 215 220
 Glu Glu Asp Phe Phe Leu Glu Lys Asn Ser Ser Val Lys Val Pro Met
 225 230 235 240
 Met Phe Arg Ser Gly Ile Tyr Gln Val Gly Tyr Asp Asp Lys Leu Ser
 245 250 255
 Cys Thr Ile Leu Glu Ile Pro Tyr Gln Lys Asn Ile Thr Ala Ile Phe
 260 265 270
 Ile Leu Pro Asp Glu Gly Lys Leu Lys His Leu Glu Lys Gly Leu Gln
 275 280 285
 Val Asp Thr Phe Ser Arg Trp Lys Thr Leu Leu Ser Arg Arg Val Val
 290 295 300
 Asp Val Ser Val Pro Arg Leu His Met Thr Gly Thr Phe Asp Leu Lys
 305 310 315 320
 Lys Thr Leu Ser Tyr Ile Gly Val Ser Lys Ile Phe Glu Glu His Gly
 325 330 335
 Asp Leu Thr Lys Ile Ala Pro His Arg Ser Leu Lys Val Gly Glu Ala
 340 345 350
 Val His Lys Ala Glu Leu Lys Met Asp Glu Arg Gly Thr Glu Gly Ala
 355 360 365
 Ala Gly Thr Gly Ala Gln Thr Leu Pro Met Glu Thr Pro Leu Val Val
 370 375 380
 Lys Ile Asp Lys Pro Tyr Leu Leu Leu Ile Tyr Ser Glu Lys Ile Pro
 385 390 395 400
 Ser Val Leu Phe Leu Gly Lys Ile Val Asn Pro Ile Gly Lys
 405 410

<210> 1562

<211> 346

<212> PRT

<213> Homo sapiens

<400> 1562
 Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala
 1 5 10 15
 Gly Trp Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu
 20 25 30
 Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys
 35 40 45
 Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala
 50 55 60
 Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
 65 70 75 80
 Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu
 85 90 95
 His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg
 100 105 110
 Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly
 115 120 125
 Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val
 130 135 140
 Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser
 145 150 155 160
 Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn
 165 170 175
 Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly
 180 185 190
 Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly
 195 200 205
 Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp
 210 215 220
 Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
 225 230 235 240
 Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr
 245 250 255
 Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met
 260 265 270
 Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
 275 280 285
 Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln
 290 295 300
 Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln
 305 310 315 320

Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile
 20 25 30

Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe
 35 40 45

<210> 1565

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any amino acid

<400> 1565

Met Cys Leu Ser Leu Leu Ala Ala Leu Ala Cys Ser Ala Gly Asp Thr
 1 5 10 15

Trp Ala Ser Glu Val Gly Pro Val Leu Ser Lys Ser Ser Pro Arg Leu
 20 25 30

Ile Thr Thr Trp Glu Lys Val Pro Val Gly Thr Asn Gly Gly Val Thr
 35 40 45

Val Val Gly Leu Val Ser Ser Leu Leu Gly Gly Thr Phe Val Gly Ile
 50 55 60

Ala Tyr Phe Leu Thr Gln Leu Ile Phe Val Asn Asp Leu Asp Ile Ser
 65 70 75 80

Ala Pro Gln Trp Pro Ile Ile Ala Phe Gly Gly Leu Ala Gly Leu Leu
 85 90 95

Gly Ser Ile Val Asp Ser Tyr Leu Gly Ala Thr Met Gln Tyr Thr Gly
 100 105 110

Leu Asp Glu Ser Thr Gly Met Val Val Asn Ser Pro Thr Asn Xaa Ala
 115 120 125

Arg His Ile Ala Gly Lys Pro Ile Leu Asp Asn Asn Ala Val Asn Leu
 130 135 140

Phe Ser Ser Val Leu Ile Ala Leu Leu Leu Pro Thr Ala Ala Trp Gly
 145 150 155 160

Phe Trp Pro Arg Gly
 165

<210> 1566

<211> 155

<212> PRT

<213> Homo sapiens

<400> 1566

Met Trp Pro Gln Glu Ala Trp Val Cys Ile Leu Val Leu Leu Gly Thr
 1 5 10 15
 Arg Val Gly Leu Cys Val Gly Asp Ser Leu Ala Pro Gln Ala Ser Leu
 20 25 30
 Ser Tyr Cys Tyr Ile Leu Lys Val Pro Leu Arg Pro Lys Pro Leu Trp
 35 40 45
 Gln Leu Ser Asn Glu Ser Ile Cys Ser Glu Tyr Arg Val Glu Gly Gly
 50 55 60
 Gln Gly His Gln Glu Leu Arg Met Phe Leu Arg Leu Met Arg Pro Arg
 65 70 75 80
 Tyr Trp Val His Gly Gly Pro Arg Ser Leu Cys Asp Ser Cys Ser Leu
 85 90 95
 Leu Pro Pro Cys Leu Asp Pro Ala Ser Ala Gln Lys Ala Asn Ser Leu
 100 105 110
 Asp Ser Lys Gly Leu Pro Arg Pro Ile Ser Met Ser Cys Ser Cys Gln
 115 120 125
 Leu Pro Val Pro Ser Leu Asp Leu Ser Ser Cys Leu Ala Pro Ser Leu
 130 135 140
 Pro Thr Pro His Ile Phe Thr Asn Lys Arg Lys
 145 150 155

<210> 1567
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1567
 Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr
 1 5 10 15
 Gln Cys Cys Leu Ile Gly Leu Leu Val Pro Leu Leu Gly Trp Gly Asn
 20 25 30
 Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp
 35 40 45
 Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His Met Val
 50 55 60

<210> 1568
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1568
 Met Thr Lys Ala Arg Leu Phe Arg Leu Trp Leu Val Leu Gly Ser Val
 1 5 10 15

Phe Met Ile Leu Leu Ile Ile Val Tyr Trp Asp Ser Ala Ala Pro Arg
 20 25 30
 Thr Ser Thr Cys Thr Arg Pro Ser Leu Gly Arg Thr Arg Gly Arg Arg
 35 40 45
 Cys Pro Arg Pro Gly Arg Thr Gly Gln Gly Ala His Gly Arg Leu Arg
 50 55 60
 Cys Arg Arg Val Ser Gly Gln Phe Leu Met Leu Ala
 65 70 75

<210> 1569
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1569
 Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val
 1 5 10 15
 Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
 20 25 30
 Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
 35 40 45
 Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Thr Cys Ser Ala
 50 55 60
 Lys Cys Thr Thr Arg Cys Trp Leu
 65 70

<210> 1570
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any amino acid

<400> 1570
 Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Xaa Ser Pro Val Val
 1 5 10 15

Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp
 20 25 30
 His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro
 35 40 45
 Xaa Ser Xaa Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser
 50 55 60
 Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser
 65 70 75 80
 Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp
 85 90

<210> 1571
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 1571
 Leu Arg Glu Leu
 1

<210> 1572
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 1572
 Gly Cys Ser Leu Tyr Asn Ser Phe Asn Asn Leu Leu Cys Leu
 1 5 10

<210> 1573
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 1573
 Trp Ala Leu Pro Met Ser
 1 5

<210> 1574
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any amino acid

<400> 1574

Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu
 1 5 10 15
 His Leu Thr Ala Ala Phe Leu Gln Arg Ala His Xaa Ile Leu Thr Thr
 20 25 30
 Arg Met Ser Leu Gly Phe Gln Ser Pro His Leu Thr Met
 35 40 45

<210> 1575
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 1575
 Pro Gly Pro His Cys Phe Ile Gly Leu Ala Met Arg Leu Tyr Tyr Gly
 1 5 10 15
 Ser Arg

<210> 1576
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 1576
 Met Val His Ile Asn Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu
 1 5 10 15
 Val Glu Asp Leu Val Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu
 20 25 30
 Met Thr Tyr Val Gly Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu
 35 40 45
 Ala Glu Leu Leu Ile Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys
 50 55 60
 Thr Gln Ile Asp His Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser
 65 70 75 80
 Ile Val Glu Lys Ile Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys
 85 90 95
 Ala Glu

<210> 1577
 <211> 392
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (251)

<223> Xaa equals any amino acid

<400> 1577

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Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
 1           5           10           15

Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser
 20           25           30

Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr
 35           40           45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile
 50           55           60

Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu
 65           70           75           80

Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly
 85           90           95

Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser
100           105           110

Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro
115           120           125

Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro
130           135           140

Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu
145           150           155           160

Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly
165           170           175

Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
180           185           190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His
195           200           205

Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro
210           215           220

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His
225           230           235           240

Leu Lys Cys Val Asp Cys Ala Lys Ala Cys Xaa Gly Cys Met Gly Ala
245           250           255

Gly Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly
260           265           270

Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly
275           280           285

Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys
290           295           300

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Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile
 305 310 315 320

Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val
 325 330 335

Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr
 340 345 350

Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala
 355 360 365

Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val
 370 375 380

Leu Glu Gly Phe Ile Lys Gly Arg
 385 390

<210> 1578
 <211> 434
 <212> PRT
 <213> Homo sapiens

<400> 1578
 Met Ala Pro Glu Gly Leu Val Pro Ala Val Leu Trp Gly Leu Ser Leu
 1 5 10 15

Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser Pro Pro Pro
 20 25 30

Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr Cys Arg Gly
 35 40 45

Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile Arg Asp Asn
 50 55 60

Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu Ser Lys Tyr
 65 70 75 80

Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly Val Cys Ser
 85 90 95

Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser Glu Glu Leu
 100 105 110

Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro Asp Leu Phe
 115 120 125

Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro Ala Gly Thr
 130 135 140

Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu Arg Pro Cys
 145 150 155 160

Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly Gly Ser Gly
 165 170 175

His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys Gly Gln Cys
 180 185 190

Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His Leu Val Cys
 195 200 205
 Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro Glu Glu Ser
 210 215 220
 Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His Leu Lys Cys
 225 230 235 240
 Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys Gly Ala Asp
 245 250 255
 Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg Asp Cys Ala
 260 265 270
 Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg Cys Lys Lys
 275 280 285
 Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu Asp Val Asp
 290 295 300
 Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln Cys Glu Asn
 305 310 315 320
 Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr Lys Gln Met
 325 330 335
 Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Gly Ala Phe Pro Ile Leu
 340 345 350
 Thr Asp Leu Thr Pro Glu Thr Thr Arg Arg Trp Lys Leu Gly Ser His
 355 360 365
 Pro His Ser Thr Tyr Val Lys Met Lys Met Gln Arg Asp Glu Ala Thr
 370 375 380
 Phe Pro Gly Leu Tyr Gly Lys Gln Val Ala Lys Leu Gly Ser Gln Ser
 385 390 395 400
 Arg Gln Ser Asp Arg Gly Thr Arg Leu Ile His Val Ile Asn Ala Leu
 405 410 415
 Pro Pro Thr Cys Pro Pro Gln Lys Lys Lys Lys Lys Lys Lys Gly
 420 425 430
 Gly Arg

<210> 1579

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1579

Met Leu Arg Cys Gly Gly Arg Gly Leu Leu Leu Gly Leu Ala Val Ala
 1 5 10 15

Ala Ala Ala Val Met Ala Ala Arg Leu Met Gly Trp Trp Gly Pro Arg

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<400> 1581
Met Gly Pro Val Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val
  1                      5                      10                      15
His Glu Ala Trp Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu
                20                      25                      30
Arg Leu Pro Ser Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu
      35                      40                      45
Gln Ala Glu Leu Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu

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| | | |
|---|-----|-----|
| 50 | 55 | 60 |
| Gly Gln Val Leu Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser | | |
| 65 | 70 | 75 |
| Val Ser Glu Thr Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg | | |
| | 85 | 90 |
| Ile Leu Asp Tyr Ser Val His Ala Glu Arg Lys Gly Ser Leu Arg Tyr | | |
| | 100 | 105 |
| Ala Lys Gly Gln Ser Gln Thr Met Ala Thr Leu Lys Gly Leu Val Gln | | |
| | 115 | 120 |
| Lys Gly Val Lys Val Asp Leu Gly Ile Pro Leu Glu Leu Trp Asp Glu | | |
| | 130 | 135 |
| Pro Ser Val Glu Val Thr Tyr Leu Lys Lys Gln Cys Glu Thr Met Leu | | |
| | 145 | 150 |
| Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Gly Gly Asp Lys Met Thr | | |
| | 165 | 170 |
| Lys Thr Gly Ser His Pro Lys Leu Asp Arg Glu Asp Leu | | |
| | 180 | 185 |

<210> 1582

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (175)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (177)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (181)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (185)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (188)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (189)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (193)

<223> Xaa equals any amino acid

<400> 1582

```

Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr
  1             5             10             15

Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp
          20             25             30

Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro
          35             40             45

Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly
  50             55             60

Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile
  65             70             75             80

Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe
          85             90             95

Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro
          100            105            110

Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala
          115            120            125

Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys
          130            135            140

Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr
          145            150            155            160

Ala Ile Leu Lys Leu Ala Phe His Arg Ile Xaa Arg Lys His Xaa His
          165            170            175

Xaa Ser Phe Ala Xaa Cys Thr Phe Xaa Val Cys Xaa Xaa Gly Asp Phe
          180            185            190

Xaa Phe Asn Leu
          195

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<210> 1583

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1583

```

Met Ala Leu Gly Ser Met Tyr Leu Val Leu Thr Leu Ile Val Ala Lys

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      1             5             10             15
Val Leu Arg Gly Ala Glu Pro Cys Cys Gly Pro Leu Lys Asn Arg Val
      20             25             30
Leu Arg Pro Cys Pro Leu Pro Val His Cys Pro Leu Pro Ile Pro Ser
      35             40             45
Pro Ala Glu Gly Ile Pro Trp Val Ala Tyr Leu Pro Ile Arg Trp Phe
      50             55             60
Ile Ser Cys Cys Pro Gly His Cys Ile Gln Ile Pro Met Cys Thr Ser
      65             70             75             80

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<210> 1584

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1584

```

Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile
  1             5             10             15
Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser
      20             25             30
Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp
      35             40             45
Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro
      50             55             60
Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly
      65             70             75             80
Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys
      85             90             95
Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser
      100            105            110
Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly
      115            120            125
Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys
      130            135            140
Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile
      145            150            155            160
Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His
      165            170            175
Cys Arg

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<210> 1585
 <211> 219
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any amino acid

<400> 1585
 Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg
 1 5 10 15
 Thr Pro Ser Ser Asp Val Ser Pro Ser Arg Ala Pro Pro Pro Ser Ala
 20 25 30
 Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu
 35 40 45
 Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr
 50 55 60
 Leu Lys Asp Thr Thr Ser Ser Ser Ala Asp Ser Thr Ile Met Asp
 65 70 75 80
 Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln
 85 90 95
 Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala Asp Glu Thr Pro Gln Pro
 100 105 110
 Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr
 115 120 125
 Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro Thr Asp Asp
 130 135 140
 Thr Thr Thr Leu Ser Glu Arg Pro Ser Pro Ser Thr Asp Val Gln Thr
 145 150 155 160
 Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe
 165 170 175
 Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala
 180 185 190
 Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg
 195 200 205
 Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg
 210 215

<210> 1586
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1586

Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala Ala
 1 5 10 15

Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly
 20 25 30

Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn
 35 40 45

Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu
 50 55 60

Lys Pro Ala Gly Ala Ser Leu Cys Trp Ala Ala Trp
 65 70 75

<210> 1587

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (65)

<223> Xaa equals any amino acid

<400> 1587

Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Gly
 1 5 10 15

Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile
 20 25 30

Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp
 35 40 45

Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Xaa
 50 55 60

Xaa Thr Pro Leu Arg Glu Arg Arg Arg Ala Lys Arg Lys Arg Leu
 65 70 75 80

Ser Pro Ser Leu Gly Pro Gly Val Glu Pro Glu Ala Pro Gly Thr Asp
 85 90 95

Thr Cys Pro Lys His Ser Pro Gly Glu Ser His Ala Arg Thr Arg Pro
 100 105 110

Arg Val Pro Thr Ala Pro Ser Ser Pro Cys Pro Ser Thr Ser Pro Pro
 115 120 125

Thr Ser
 130

<210> 1588
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 1588
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1 5 10 15
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
 20 25 30
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
 35 40 45
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
 50 55 60
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
 65 70 75 80
 Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
 85 90 95
 Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
 100 105 110
 His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
 115 120 125
 Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly
 130 135 140
 Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
 145 150 155 160
 His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu
 165 170

<210> 1589
 <211> 210
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any amino acid

<400> 1589

Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1 5 10 15
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
 20 25 30
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
 35 40 45
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
 50 55 60
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
 65 70 75 80
 Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
 85 90 95
 Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
 100 105 110
 His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
 115 120 125
 Val Pro Glu Ala His Ser Pro Gly Phe Asp Xaa Ala Ser Phe Ile Gly
 130 135 140
 Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
 145 150 155 160
 Thr Ser Ser Arg Pro Arg Thr Ala Pro Thr Arg Arg Cys Glu Tyr Leu
 165 170 175
 Ala Ser Ser Lys Tyr Leu Ser Pro Ser Ser Xaa Leu Val Pro Ala His
 180 185 190
 Val Pro Phe Ser Thr Gln Gly Ala Val Phe Ser Thr Gly Lys Pro Ser
 195 200 205
 Gly Arg
 210

<210> 1590

<211> 99

<212> PRT

<213> Homo sapiens

<400> 1590

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
 1 5 10 15
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
 20 25 30
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
 35 40 45
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
 50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His
85 90 95

Pro Gly Asn

<210> 1591

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1591

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr
130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr
145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val
165 170 175

Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr
180 185 190

Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln
195 200 205

Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly
210 215 220

His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu

950

<210> 1593
 <211> 250
 <212> PRT
 <213> Homo sapiens

<400> 1593
 Met Arg Gly Thr Pro Lys Thr His Leu Leu Ala Phe Ser Leu Leu Cys
 1 5 10 15
 Leu Leu Ser Lys Val Arg Thr Gln Leu Cys Pro Thr Pro Cys Thr Cys
 20 25 30
 Pro Trp Pro Pro Pro Arg Cys Pro Leu Gly Val Pro Leu Val Leu Asp
 35 40 45
 Gly Cys Gly Cys Cys Arg Val Cys Ala Arg Arg Leu Gly Glu Pro Cys
 50 55 60
 Asp Gln Leu His Val Cys Asp Ala Ser Gln Gly Leu Val Cys Gln Pro
 65 70 75 80
 Gly Ala Gly Pro Gly Gly Arg Gly Ala Leu Cys Leu Leu Ala Glu Asp
 85 90 95
 Asp Ser Ser Cys Glu Val Asn Gly Arg Leu Tyr Arg Glu Gly Glu Thr
 100 105 110
 Phe Gln Pro His Cys Ser Ile Arg Cys Arg Cys Glu Asp Gly Gly Phe
 115 120 125
 Thr Cys Val Pro Leu Cys Ser Glu Asp Val Arg Leu Pro Ser Trp Asp
 130 135 140
 Cys Pro His Pro Arg Arg Val Glu Val Leu Gly Lys Cys Cys Pro Glu
 145 150 155 160
 Trp Val Cys Gly Gln Gly Gly Gly Leu Gly Thr Gln Pro Leu Pro Ala
 165 170 175
 Gln Gly Pro Gln Phe Ser Gly Leu Val Ser Ser Leu Pro Pro Gly Val
 180 185 190
 Pro Cys Pro Glu Trp Ser Thr Ala Trp Gly Pro Cys Ser Thr Thr Cys
 195 200 205
 Gly Leu Gly Met Ala Thr Arg Val Ser Asn Gln Asn Arg Phe Cys Arg
 210 215 220
 Leu Glu Thr Gln Arg Arg Leu Cys Leu Ser Arg Pro Cys Pro Pro Ser
 225 230 235 240
 Arg Gly Arg Ser Pro Gln Asn Ser Ala Phe
 245 250

<210> 1594
 <211> 281
 <212> PRT

<213> Homo sapiens

<400> 1594

```

Met Ser Ile Leu Thr Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val
  1           5           10           15

Arg Phe Trp Phe Leu His Gln Met Val Leu Asp Leu Cys Leu Gly Gln
  20           25           30

Gly Val Pro Gln Gln Asn Leu Gly Lys Pro Lys Gly Lys Lys Lys Leu
  35           40           45

Ser Ser Val Arg Gln Lys Phe Asp His Arg Phe Gln Pro Gln Asn Pro
  50           55           60

Leu Ser Gly Ala Gln Gln Phe Val Ala Lys Asp Pro Gln Asp Asp Asp
  65           70           75           80

Asp Leu Lys Leu Cys Ser His Thr Met Met Leu Pro Thr Arg Gly Gln
  85           90           95

Leu Glu Gly Arg Met Ile Val Thr Ala Tyr Glu His Gly Leu Asp Asn
 100           105           110

Val Thr Glu Glu Ala Val Ser Ala Val Val Tyr Ala Val Glu Asn His
 115           120           125

Leu Lys Asp Ile Leu Thr Ser Val Val Ser Arg Arg Lys Ala Tyr Arg
 130           135           140

Leu Arg Asp Gly His Phe Lys Tyr Ala Phe Gly Ser Asn Val Thr Pro
 145           150           155           160

Gln Pro Tyr Leu Lys Asn Ser Val Val Ala Tyr Asn Asn Leu Ile Glu
 165           170           175

Ser Pro Pro Ala Phe Thr Ala Pro Cys Ala Gly Gln Asn Pro Ala Ser
 180           185           190

His Pro Pro Pro Asp Asp Ala Glu Gln Gln Ala Ala Leu Leu Leu Ala
 195           200           205

Cys Ser Gly Asp Thr Leu Pro Ala Ser Leu Pro Pro Val Asn Met Tyr
 210           215           220

Asp Leu Phe Glu Ala Leu Gln Val His Arg Glu Val Ile Pro Thr His
 225           230           235           240

Thr Val Tyr Ala Leu Asn Ile Glu Arg Ile Ile Thr Lys Leu Trp His
 245           250           255

Pro Asn His Glu Glu Leu Gln Gln Asp Lys Val His Arg Gln Arg Leu
 260           265           270

Ala Ala Lys Glu Gly Leu Leu Leu Cys
 275           280

```

<210> 1595

<211> 89

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any amino acid

<400> 1595

```

Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
  1             5             10             15

Leu Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr
          20             25             30

Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
          35             40             45

Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
          50             55             60

Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp
          65             70             75             80

Arg Ala Val Val Val Gln Met Ala Gln
          85
  
```

<210> 1596
 <211> 335
 <212> PRT
 <213> Homo sapiens

<400> 1596

```

Met Lys Lys Glu Leu Pro Val Asp Ser Cys Leu Pro Arg Ser Leu Glu
  1             5             10             15

Leu His Pro Gln Lys Met Asp Pro Lys Arg Gln His Ile Gln Leu Leu
          20             25             30

Ser Ser Leu Thr Glu Cys Leu Thr Val Asp Pro Leu Ser Ala Ser Val
          35             40             45

Trp Arg Gln Leu Tyr Pro Lys His Leu Ser Gln Ser Ser Leu Leu Leu
          50             55             60

Glu His Leu Leu Ser Ser Trp Glu Gln Ile Pro Lys Lys Val Gln Lys
          65             70             75             80

Ser Leu Gln Glu Thr Ile Gln Ser Leu Lys Leu Thr Asn Gln Glu Leu
          85             90             95

Leu Arg Lys Gly Ser Ser Asn Asn Gln Asp Val Val Thr Cys Asp Met
          100             105             110
  
```


Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro Trp
 115 120 125
 Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu Cys
 130 135 140
 His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly Arg
 145 150 155 160
 Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys Ala
 165 170 175
 Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu Thr
 180 185 190
 Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser Leu
 195 200 205
 Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser Ala
 210 215 220
 His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser Leu
 225 230 235 240
 Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu Leu
 245 250 255
 Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu Leu
 260 265 270
 Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu His
 275 280 285
 Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys Thr
 290 295 300
 Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Leu Gln Asp Ile
 305 310 315 320
 Thr Val Ala Phe Leu Asp Trp Ala Leu Ala Leu Ile Ser Gln Gln
 325 330 335

<210> 1597

<211> 27

<212> PRT

<213> Homo sapiens

<400> 1597

Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val
 1 5 10 15

Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu
 20 25

<210> 1598

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1598

Leu Ala Ala Thr Arg Lys Phe Phe Leu Ser Ser His Ser Ser Ser Cys
 1 5 10 15
 Lys Lys Gly Ala Met Ser Gln Lys Glu Ala Pro Phe His Arg Gln Arg
 20 25 30
 Leu His Arg Glu Arg Gly Asn Arg Arg Leu Gly Asn Gly Gly Glu Trp
 35 40 45
 Gly Arg Asn Trp Val Gln
 50

<210> 1599

<211> 147

<212> PRT

<213> Homo sapiens

<400> 1599

Met Leu Ala Gly Ala Gly Arg Pro Gly Leu Pro Gln Gly Arg His Leu
 1 5 10 15
 Cys Trp Leu Leu Cys Ala Phe Thr Leu Lys Leu Cys Gln Ala Glu Ala
 20 25 30
 Pro Val Gln Glu Glu Lys Leu Ser Ala Ser Thr Ser Asn Leu Pro Cys
 35 40 45
 Trp Leu Val Glu Glu Phe Val Val Ala Glu Glu Cys Ser Pro Cys Ser
 50 55 60
 Asn Phe Arg Ala Lys Thr Thr Pro Glu Cys Gly Pro Thr Gly Tyr Val
 65 70 75 80
 Glu Lys Ile Thr Cys Ser Ser Ser Lys Arg Asn Glu Phe Lys Ser Cys
 85 90 95
 Arg Phe Ser Phe Glu Trp Asn Asn Ala Tyr Phe Gly Ser Ser Lys Gly
 100 105 110
 Ala Val Val Cys Val Ala Leu Ile Phe Ala Cys Leu Val Ile Ile Arg
 115 120 125
 Gln Arg Gln Leu Asp Arg Lys Ala Leu Glu Lys Val Arg Lys Gln Ile
 130 135 140
 Glu Ser Ile
 145

<210> 1600

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1600

Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser
 1 5 10 15
 Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly
 20 25 30
 Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Tyr Cys
 35 40 45
 Cys Arg Leu Ser Ala Gln Thr Tyr Phe Ser Leu Pro Ala Leu Gln Lys
 50 55 60
 Cys Ile Gly Ile Cys Arg
 65 70

<210> 1601
 <211> 91
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any amino acid

<400> 1601
 Met Tyr Gly Lys Ser Ser Thr Arg Ala Val Leu Leu Leu Leu Gly Ile
 1 5 10 15
 Gln Leu Thr Ala Leu Trp Pro Ile Ala Ala Val Glu Ile Tyr Thr Ser
 20 25 30
 Arg Val Leu Glu Ala Val Asn Gly Thr Asp Ala Arg Leu Lys Cys Thr
 35 40 45
 Phe Ser Ser Phe Ala Pro Val Gly Asp Ala Leu Thr Val Thr Trp Asn
 50 55 60
 Phe Arg Pro Leu Asp Gly Gly Pro Glu Gln Phe Val Phe Tyr Tyr His
 65 70 75 80
 Ile Asp Pro Xaa Pro Thr His Glu Trp Ala Val
 85 90

<210> 1602
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1602
 Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu
 1 5 10 15
 Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr
 20 25 30
 Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met

35 40 45
 Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile
 50 55 60
 Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln
 65 70 75 80
 Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala
 85 90 95
 Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly
 100 105 110
 Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu
 115 120 125
 Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile
 130 135 140
 Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro
 145 150 155

<210> 1603
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any amino acid

<400> 1603
 Pro Thr Phe Ser Asp Gln Tyr Leu Ala Pro His Pro Tyr Ser Pro Gln
 1 5 10 15
 Pro Pro Pro Tyr His Glu Leu Pro His Xaa His Gly Gln Ser Gln Arg
 20 25 30
 Val Leu Cys Gly Cys Tyr Val Ala His Cys Gly Ala Arg Leu Gly Arg
 35 40 45
 Ala Leu Leu Val Cys Asp Trp Val Ser Trp Pro Ser Cys Ala Cys Ser
 50 55 60
 Tyr Ser Ala Trp Ala Gln Pro Thr Ser Cys Cys His Thr Gly Asp Cys
 65 70 75 80
 Gly His Cys Asp Ser His Gln Gln Cys Leu Val Pro Pro Pro Ser Leu
 85 90 95
 Arg Gly Arg Gln Gly Thr Phe Asp Tyr Phe
 100 105

<210> 1604
 <211> 708

<212> PRT

<213> Homo sapiens

<400> 1604

```

Met Lys Asp Met Pro Leu Arg Ile His Val Leu Leu Gly Leu Ala Ile
 1           5           10           15

Thr Thr Leu Val Gln Ala Val Asp Lys Lys Val Asp Cys Pro Arg Leu
 20           25           30

Cys Thr Cys Glu Ile Arg Pro Trp Phe Thr Pro Arg Ser Ile Tyr Met
 35           40           45

Glu Ala Ser Thr Val Asp Cys Asn Asp Leu Gly Leu Leu Thr Phe Pro
 50           55           60

Ala Arg Leu Pro Ala Asn Thr Gln Ile Leu Leu Leu Gln Thr Asn Asn
 65           70           75           80

Ile Ala Lys Ile Glu Tyr Ser Thr Asp Phe Pro Val Asn Leu Thr Gly
 85           90           95

Leu Asp Leu Ser Gln Asn Asn Leu Ser Ser Val Thr Asn Ile Asn Val
100           105           110

Lys Lys Met Pro Gln Leu Leu Ser Val Tyr Leu Glu Glu Asn Lys Leu
115           120           125

Thr Glu Leu Pro Glu Lys Cys Leu Ser Glu Leu Ser Asn Leu Gln Glu
130           135           140

Leu Tyr Ile Asn His Asn Leu Leu Ser Thr Ile Ser Pro Gly Ala Phe
145           150           155           160

Ile Gly Leu His Asn Leu Leu Arg Leu His Leu Asn Ser Asn Arg Leu
165           170           175

Gln Met Ile Asn Ser Lys Trp Phe Asp Ala Leu Pro Asn Leu Glu Ile
180           185           190

Leu Met Ile Gly Glu Asn Pro Ile Ile Arg Ile Lys Asp Met Asn Phe
195           200           205

Lys Pro Leu Ile Asn Leu Arg Ser Leu Val Ile Ala Gly Ile Asn Leu
210           215           220

Thr Glu Ile Pro Asp Asn Ala Leu Val Gly Leu Glu Asn Leu Glu Ser
225           230           235           240

Ile Ser Phe Tyr Asp Asn Arg Leu Ile Lys Val Pro His Val Ala Leu
245           250           255

Gln Lys Val Val Asn Leu Lys Phe Leu Asp Leu Asn Lys Asn Pro Ile
260           265           270

Asn Arg Ile Arg Arg Gly Asp Phe Ser Asn Met Leu His Leu Lys Glu
275           280           285

Leu Gly Ile Asn Asn Met Pro Glu Leu Ile Ser Ile Asp Ser Leu Ala
290           295           300

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Val Asp Asn Leu Pro Asp Leu Arg Lys Ile Glu Ala Thr Asn Asn Pro
 305 310 315 320
 Arg Leu Ser Tyr Ile His Pro Asn Ala Phe Phe Arg Leu Pro Lys Leu
 325 330 335
 Glu Ser Leu Met Leu Asn Ser Asn Ala Leu Ser Ala Leu Tyr His Gly
 340 345 350
 Thr Ile Glu Ser Leu Pro Asn Leu Lys Glu Ile Ser Ile His Ser Asn
 355 360 365
 Pro Ile Arg Cys Asp Cys Val Ile Arg Trp Met Asn Met Asn Lys Thr
 370 375 380
 Asn Ile Arg Phe Met Glu Pro Asp Ser Leu Phe Cys Val Asp Pro Pro
 385 390 395 400
 Glu Phe Gln Gly Gln Asn Val Arg Gln Val His Phe Arg Asp Met Met
 405 410 415
 Glu Ile Cys Leu Pro Leu Ile Ala Pro Glu Ser Phe Pro Ser Asn Leu
 420 425 430
 Asn Val Glu Ala Gly Ser Tyr Val Ser Phe His Cys Arg Ala Thr Ala
 435 440 445
 Glu Pro Gln Pro Glu Ile Tyr Trp Ile Thr Pro Ser Gly Gln Lys Leu
 450 455 460
 Leu Pro Asn Thr Leu Thr Asp Lys Phe Tyr Val His Ser Glu Gly Thr
 465 470 475 480
 Leu Asp Ile Asn Gly Val Thr Pro Lys Glu Gly Gly Leu Tyr Thr Cys
 485 490 495
 Ile Ala Thr Asn Leu Val Gly Ala Asp Leu Lys Ser Val Met Ile Lys
 500 505 510
 Val Asp Gly Ser Phe Pro Gln Asp Asn Asn Gly Ser Leu Asn Ile Lys
 515 520 525
 Ile Arg Asp Ile Gln Ala Asn Ser Val Leu Val Ser Trp Lys Ala Ser
 530 535 540
 Ser Lys Ile Leu Lys Ser Ser Val Lys Trp Thr Ala Phe Val Lys Thr
 545 550 555 560
 Glu Asn Ser His Ala Ala Gln Ser Ala Arg Ile Pro Ser Asp Val Lys
 565 570 575
 Val Tyr Asn Leu Thr His Leu Asn Pro Ser Thr Glu Tyr Lys Ile Cys
 580 585 590
 Ile Asp Ile Pro Thr Ile Tyr Gln Lys Asn Arg Lys Lys Cys Val Asn
 595 600 605
 Val Thr Thr Lys Gly Leu His Pro Asp Gln Lys Glu Tyr Glu Lys Asn
 610 615 620
 Asn Thr Thr Thr Leu Met Ala Cys Leu Gly Gly Leu Leu Gly Ile Ile

625 630 635 640
 Gly Val Ile Cys Leu Ile Ser Cys Leu Ser Pro Glu Met Asn Cys Asp
 645 650 655
 Gly Gly His Ser Tyr Val Arg Asn Tyr Leu Gln Lys Pro Thr Phe Ala
 660 665 670
 Leu Gly Glu Leu Tyr Pro Pro Leu Ile Asn Leu Trp Glu Ala Gly Lys
 675 680 685
 Glu Lys Ser Thr Ser Leu Lys Val Lys Ala Thr Val Ile Gly Leu Pro
 690 695 700
 Thr Asn Met Ser
 705

<210> 1605
 <211> 244
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (231)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (237)
 <223> Xaa equals any amino acid

<400> 1605
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu
 1 5 10 15
 Leu Val Ala Ile Val Leu Ala His Val Leu Ala Phe Phe Trp Phe His
 20 25 30
 His Tyr Gly Pro Pro Pro Pro Pro Arg Ala Ala Phe Val Glu Gln Pro
 35 40 45
 Asp Gly Ser Leu Thr Pro Leu Arg Lys Ala Pro Arg Pro Trp Phe Gly
 50 55 60
 Gly Pro Val Val Pro Leu Thr Phe Gln Phe Ile Ser Leu Ile Ile Ala
 65 70 75 80
 Ala Trp Tyr Gly Ala Lys Leu Leu Ser Arg Pro Ile Gln Arg Leu Ser
 85 90 95
 Ala Ala Ala Glu Arg Leu Ser Val Asp Leu Asp Ser Pro Pro Leu Val
 100 105 110
 Glu Thr Gly Pro Arg Glu Ala Arg Gln Ala Ala Ser Thr Phe Asn Leu
 115 120 125
 Met Gln Lys Arg Ile Arg Glu Gln Val Ser Gln Arg Ala Arg Met Leu
 130 135 140

Gly Ala Val Ser His Asp Leu Arg Thr Pro Leu Ser Arg Leu Lys Leu
 145 150 155 160
 Arg Leu Glu Gln Ile Glu Asp Pro Lys Leu Gln Gly Gln Met Arg Gln
 165 170 175
 Asp Leu Asp Asp Met Ile Gly Met Leu Asp Ala Thr Leu Ser Tyr Leu
 180 185 190
 His Glu Gln Arg Thr Ser Glu Thr Arg His Trp Leu Asp Val Gln Ala
 195 200 205
 Leu Val Glu Ser Leu Ser Glu Asn Ala Gln Asp Gln Gly Arg Asp Val
 210 215 220
 Gln Phe Phe Phe Gly Gly Xaa Pro Pro Gly Gly Gly Xaa Pro Lys Thr
 225 230 235 240
 Pro Pro Pro Phe

<210> 1606
 <211> 244
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (231)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (237)
 <223> Xaa equals any amino acid

<400> 1606
 Met Arg Ala Pro Phe Asn Thr Leu Phe Gly Arg Leu Phe Gly Leu Leu

| | | | |
|-------------|-------------|-------------|-----------------------------|
| 1 | 5 | 10 | 15 |
| Leu Val Ala | Ile Val Leu | Ala His Xaa | Leu Ala Phe Phe Trp Phe His |
| | 20 | 25 | 30 |
| His Tyr Gly | Pro Pro Pro | Pro Xaa Xaa | Ala Xaa Phe Val Glu Gln Pro |
| | 35 | 40 | 45 |
| Asp Gly Ser | Leu Thr Pro | Leu Arg Lys | Ala Pro Arg Pro Trp Phe Gly |
| | 50 | 55 | 60 |
| Gly Pro Val | Val Pro Leu | Thr Phe Gln | Phe Ile Ser Leu Ile Ile Ala |
| | 65 | 70 | 75 |
| Ala Trp Tyr | Gly Ala Lys | Leu Leu Ser | Arg Pro Ile Gln Arg Leu Ser |
| | 85 | 90 | 95 |
| Ala Ala Ala | Glu Arg Leu | Ser Val Asp | Leu Asp Ser Pro Pro Leu Val |
| | 100 | 105 | 110 |
| Glu Thr Gly | Pro Arg Glu | Ala Arg Gln | Ala Ala Ser Thr Phe Asn Leu |
| | 115 | 120 | 125 |
| Met Gln Lys | Arg Ile Arg | Glu Gln Val | Ser Gln Arg Ala Arg Met Leu |
| | 130 | 135 | 140 |
| Gly Ala Val | Ser His Asp | Leu Arg Thr | Pro Leu Ser Arg Leu Lys Leu |
| | 145 | 150 | 155 |
| Arg Leu Glu | Gln Ile Glu | Asp Pro Lys | Leu Gln Gly Gln Met Arg Gln |
| | 165 | 170 | 175 |
| Asp Leu Asp | Asp Met Ile | Gly Met Leu | Asp Ala Thr Leu Ser Tyr Leu |
| | 180 | 185 | 190 |
| His Glu Gln | Arg Thr Ser | Glu Thr Arg | His Trp Leu Asp Val Gln Ala |
| | 195 | 200 | 205 |
| Leu Val Glu | Ser Leu Ser | Glu Asn Ala | Gln Asp Gln Gly Arg Asp Val |
| | 210 | 215 | 220 |
| Gln Phe Phe | Phe Gly Gly | Xaa Pro Pro | Gly Gly Gly Xaa Pro Lys Thr |
| | 225 | 230 | 235 |
| Pro Pro Pro | Phe | | |

<210> 1607

<211> 10

<212> PRT

<213> Homo sapiens

<400> 1607

| | | | |
|-------------|-------------|-------------|-----|
| Met Gly Leu | Phe Leu Phe | Leu Val Ser | Ser |
| 1 | 5 | 10 | |

<210> 1608

<211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1608
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly
 1 5 10 15
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys
 20 25 30
 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe
 35 40 45
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val
 50 55 60
 Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg
 65 70 75 80
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro
 85 90 95
 Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Ser
 100 105 110
 Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu
 115 120 125
 Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro
 130 135 140
 Cys Arg
 145

<210> 1609
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1609
 Met Val Thr Phe Ala Ser Ser Thr Leu Trp Ile Ala Ala Phe Ser Tyr
 1 5 10 15
 Met Met Val Trp Met Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30
 Asp Val Ile Met Gly Asp His Leu Pro Gly Cys Trp Asp Gln Arg Ala
 35 40 45

<210> 1610
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1610

```

Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu
 1           5           10           15

Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala Val Pro
      20           25           30

Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys
      35           40           45

Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser
      50           55           60

Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Tyr Asp Asn Gly Phe
      65           70           75           80

Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asp Gln
      85           90           95

Lys Val Arg Arg Val Phe Val Arg Lys Val Tyr Thr Ile Leu Leu Ile
      100          105          110

Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asp
      115          120          125

Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser
      130          135          140

Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly
      145          150          155          160

Pro Arg Arg His Phe Pro Trp Glu Pro Asp Ser Pro Asp Arg Leu Tyr
      165          170          175

Pro Val His Gly Leu Pro His Trp Asp Ala Val Gln Leu Leu Gln His
      180          185          190

His Leu Arg Ala Ala Val Pro Gly His His Gly Pro Cys Leu Pro Leu
      195          200          205

Ser His Arg Leu Gln Leu Pro Asp Gln Val Arg Leu His Leu Leu Pro
      210          215          220

Gly Arg Ala Leu Arg Ala Ser His Asp Ser Phe Leu Gln Arg Thr His
      225          230          235          240

Pro Gly His Pro Pro Thr Leu Pro Ile Cys Ala Leu Ala Pro Cys Ser
      245          250          255

Leu Cys Ser Thr Gly Ser Gly Cys Ile Tyr Ile Val Pro Gly Thr
      260          265          270

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<210> 1611

<211> 138

<212> PRT

<213> Homo sapiens

<400> 1611

Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser
 1 5 10 15
 Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr
 20 25 30
 Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val
 35 40 45
 Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Ala
 50 55 60
 Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val Tyr Ala
 65 70 75 80
 Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln
 85 90 95
 Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu Tyr Ile
 100 105 110
 Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe
 115 120 125
 Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
 130 135

<210> 1612

<211> 612

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (245)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (246)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (249)

<223> Xaa equals any amino acid

<400> 1612

Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro
 1 5 10 15
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg
 20 25 30
 Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly
 35 40 45
 Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu
 50 55 60

Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln
 65 70 75 80
 Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys Val Ser Phe Lys Asn His
 85 90 95
 Ser Ala Leu Ile Thr Ser Val Val Pro Gly Asp Tyr Asp Gly Asp Ser
 100 105 110
 Gln Met Asp Val Leu Leu Thr Tyr Leu Pro Lys Asn Tyr Ala Lys Ser
 115 120 125
 Glu Leu Gly Ala Val Ile Phe Trp Gly Gln Asn Gln Thr Leu Asp Pro
 130 135 140
 Asn Asn Met Thr Ile Leu Asn Arg Thr Phe Gln Asp Glu Pro Leu Ile
 145 150 155 160
 Met Asp Phe Asn Gly Asp Leu Ile Pro Asp Ile Phe Gly Ile Thr Asn
 165 170 175
 Glu Ser Asn Gln Pro Gln Ile Leu Leu Gly Gly Asn Leu Ser Trp His
 180 185 190
 Pro Ala Leu Thr Thr Thr Ser Lys Met Arg Ile Pro His Ser His Ala
 195 200 205
 Phe Ile Asp Leu Thr Glu Asp Phe Thr Ala Asp Leu Phe Leu Thr Thr
 210 215 220
 Leu Asn Ala Thr Thr Ser Thr Phe Gln Phe Glu Ile Trp Glu Asn Leu
 225 230 235 240
 Asp Gly Asn Phe Xaa Xaa Ser Thr Xaa Leu Glu Lys Pro Gln Asn Met
 245 250 255
 Met Val Val Gly Gln Ser Ala Phe Ala Asp Phe Asp Gly Asp Gly His
 260 265 270
 Met Asp His Leu Leu Pro Gly Cys Glu Asp Lys Asn Cys Gln Lys Ser
 275 280 285
 Thr Ile Tyr Leu Val Arg Ser Gly Met Lys Gln Trp Val Pro Val Leu
 290 295 300
 Gln Asp Phe Ser Asn Lys Gly Thr Leu Trp Gly Phe Val Pro Phe Val
 305 310 315 320
 Asp Glu Gln Gln Pro Thr Glu Ile Pro Ile Pro Ile Thr Leu His Ile
 325 330 335
 Gly Asp Tyr Asn Met Asp Gly Tyr Pro Asp Ala Leu Val Ile Leu Lys
 340 345 350
 Asn Thr Ser Gly Ser Asn Gln Gln Ala Phe Leu Leu Glu Asn Val Pro
 355 360 365
 Cys Asn Asn Ala Ser Cys Glu Glu Ala Arg Arg Met Phe Lys Val Tyr
 370 375 380

Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr
 385 390 395 400
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser
 405 410 415
 Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn
 420 425 430
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
 435 440 445
 Cys Ser Asn Asp Cys Pro Arg Lys Ile Thr Pro Phe Gly Val Asn Gln
 450 455 460
 Pro Gly Pro Tyr Ile Met Tyr Thr Thr Val Asp Ala Asn Gly Tyr Leu
 465 470 475 480
 Lys Asn Gly Ser Ala Gly Gln Leu Ser Gln Ser Ala His Leu Ala Leu
 485 490 495
 Gln Leu Pro Tyr Asn Val Leu Gly Leu Gly Arg Ser Ala Asn Phe Leu
 500 505 510
 Asp His Leu Tyr Val Gly Ile Pro Arg Pro Ser Gly Glu Lys Ser Ile
 515 520 525
 Arg Lys Gln Glu Trp Thr Ala Ile Ile Pro Asn Ser Gln Leu Ile Val
 530 535 540
 Ile Pro Tyr Pro His Asn Val Pro Arg Ser Trp Ser Ala Lys Leu Tyr
 545 550 555 560
 Leu Thr Pro Ser Asn Ile Val Leu Leu Thr Ala Ile Ala Leu Ile Gly
 565 570 575
 Val Cys Val Phe Ile Leu Ala Ile Ile Gly Ile Leu His Trp Gln Glu
 580 585 590
 Lys Lys Ala Asp Asp Arg Glu Lys Arg Gln Glu Ala His Arg Phe His
 595 600 605
 Phe Asp Ala Met
 610

<210> 1613

<211> 456

<212> PRT

<213> Homo sapiens

<400> 1613

Met Ala Ala Ala Gly Arg Leu Pro Ser Ser Trp Ala Leu Phe Ser Pro
 1 5 10 15
 Leu Leu Ala Gly Leu Ala Leu Leu Gly Val Gly Pro Val Pro Ala Arg
 20 25 30
 Ala Leu His Asn Val Thr Ala Glu Leu Phe Gly Ala Glu Ala Trp Gly
 35 40 45

Thr Leu Ala Ala Phe Gly Asp Leu Asn Ser Asp Lys Gln Thr Asp Leu
 50 55 60
 Phe Val Leu Arg Glu Arg Asn Asp Leu Ile Val Phe Leu Ala Asp Gln
 65 70 75 80
 Asn Ala Pro Tyr Phe Lys Pro Lys Val Lys Val Ser Phe Lys Asn His
 85 90 95
 Ser Ala Leu Ile Thr Ser Val Val Pro Gly Asp Tyr Asp Gly Asp Ser
 100 105 110
 Gln Met Asp Val Leu Leu Thr Tyr Leu Pro Lys Asn Tyr Ala Lys Ser
 115 120 125
 Glu Leu Gly Ala Val Ile Phe Trp Gly Gln Asn Gln Thr Leu Asp Pro
 130 135 140
 Asn Asn Met Thr Ile Leu Asn Arg Thr Phe Gln Asp Glu Pro Leu Ile
 145 150 155 160
 Met Asp Phe Asn Gly Asp Leu Ile Pro Asp Ile Phe Gly Ile Thr Asn
 165 170 175
 Glu Ser Asn Gln Pro Gln Ile Leu Leu Gly Gly Asn Leu Ser Trp His
 180 185 190
 Pro Ala Leu Thr Thr Thr Ser Lys Met Arg Ile Pro His Ser His Ala
 195 200 205
 Phe Ile Asp Leu Thr Glu Asp Phe Thr Ala Asp Leu Phe Leu Thr Thr
 210 215 220
 Leu Asn Ala Thr Thr Ser Thr Phe Gln Phe Glu Ile Trp Glu Asn Leu
 225 230 235 240
 Asp Gly Asn Phe Ser Val Ser Thr Ile Leu Glu Lys Pro Gln Asn Met
 245 250 255
 Met Val Val Gly Gln Ser Ala Phe Ala Asp Phe Asp Gly Asp Gly His
 260 265 270
 Met Asp His Leu Leu Pro Gly Cys Glu Asp Lys Asn Cys Gln Lys Ser
 275 280 285
 Thr Ile Tyr Leu Val Arg Ser Gly Met Lys Gln Trp Val Pro Val Leu
 290 295 300
 Gln Asp Phe Ser Asn Lys Gly Thr Leu Trp Gly Phe Val Pro Phe Val
 305 310 315 320
 Asp Glu Gln Gln Pro Thr Glu Ile Pro Ile Pro Ile Thr Leu His Ile
 325 330 335
 Gly Asp Tyr Asn Met Asp Gly Tyr Pro Asp Ala Leu Val Ile Leu Lys
 340 345 350
 Asn Thr Ser Gly Ser Asn Gln Gln Ala Phe Leu Leu Glu Asn Val Pro
 355 360 365

Cys Asn Asn Ala Ser Cys Glu Glu Ala Arg Arg Met Phe Lys Val Tyr
 370 375 380
 Trp Glu Leu Thr Asp Leu Asn Gln Ile Lys Asp Ala Met Val Ala Thr
 385 390 395 400
 Phe Phe Asp Ile Tyr Glu Asp Gly Ile Leu Asp Ile Val Val Leu Ser
 405 410 415
 Lys Gly Tyr Thr Lys Asn Asp Phe Ala Ile His Thr Leu Lys Asn Asn
 420 425 430
 Phe Glu Ala Asp Ala Tyr Phe Val Lys Val Ile Val Leu Ser Gly Leu
 435 440 445
 Cys Ser Asn Asp Cys Pro Arg Arg
 450 455

<210> 1614
 <211> 264
 <212> PRT
 <213> Homo sapiens

<400> 1614
 Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu Leu
 1 5 10 15
 Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro Asp Pro
 20 25 30
 Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His Ala Tyr Asp
 35 40 45
 Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu Arg Pro Leu Thr
 50 55 60
 Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser Leu Thr Leu Ile Asp
 65 70 75 80
 Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg
 85 90 95
 Val Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn
 100 105 110
 Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu Ser
 115 120 125
 Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp
 130 135 140
 Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys
 145 150 155 160
 Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val
 165 170 175
 Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr
 180 185 190

Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu
 195 200 205

Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg
 210 215 220

Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp
 225 230 235 240

Val Leu Thr Gly Lys Gly Trp Pro Arg Thr Gln Ala Ser Gly Leu Ala
 245 250 255

Trp Thr Pro Thr Leu Ser Thr Trp
 260

<210> 1615
 <211> 316
 <212> PRT
 <213> Homo sapiens

<400> 1615
 Met Leu Arg Arg Arg Gly Ser Pro Gly Met Gly Val His Val Gly Ala
 1 5 10 15

Ala Leu Gly Ala Leu Trp Phe Cys Leu Thr Gly Ala Leu Glu Val Gln
 20 25 30

Val Pro Glu Asp Pro Val Val Ala Leu Val Gly Thr Asp Ala Thr Leu
 35 40 45

Cys Cys Ser Phe Ser Pro Glu Pro Gly Phe Ser Leu Ala Gln Leu Asn
 50 55 60

Leu Ile Trp Gln Leu Thr Asp Thr Lys Gln Leu Val His Ser Phe Ala
 65 70 75 80

Glu Gly Gln Asp Gln Gly Ser Ala Tyr Ala Asn Arg Thr Ala Leu Phe
 85 90 95

Pro Asp Leu Leu Ala Gln Gly Asn Ala Ser Leu Arg Leu Gln Arg Val
 100 105 110

Arg Val Ala Asp Glu Gly Ser Phe Thr Cys Phe Val Ser Ile Arg Asp
 115 120 125

Phe Gly Ser Ala Ala Val Ser Leu Gln Val Ala Ala Pro Tyr Ser Lys
 130 135 140

Pro Ser Met Thr Leu Glu Pro Asn Lys Asp Leu Arg Pro Gly Asp Thr
 145 150 155 160

Val Thr Ile Thr Cys Ser Ser Tyr Gln Gly Tyr Pro Glu Ala Glu Val
 165 170 175

Phe Trp Gln Asp Gly Gln Gly Val Pro Leu Thr Gly Asn Val Thr Thr
 180 185 190

Ser Gln Met Ala Asn Glu Gln Gly Leu Phe Asp Val His Ser Ile Leu

195 200 205
 Arg Val Val Leu Gly Ala Asn Gly Thr Tyr Ser Cys Leu Val Arg Asn
 210 215 220
 Pro Val Leu Gln Gln Asp Ala His Ser Ser Val Thr Ile Thr Gly Gln
 225 230 235 240
 Pro Met Thr Phe Pro Pro Glu Ala Leu Trp Val Thr Val Gly Leu Ser
 245 250 255
 Val Cys Leu Ile Ala Leu Leu Val Ala Leu Ala Phe Val Cys Trp Arg
 260 265 270
 Lys Ile Lys Gln Ser Cys Glu Glu Glu Asn Ala Gly Ala Glu Asp Gln
 275 280 285
 Asp Gly Glu Gly Glu Gly Ser Lys Thr Ala Leu Gln Pro Leu Lys His
 290 295 300
 Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala
 305 310 315

<210> 1616
 <211> 302
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (128)
 <223> Xaa equals any amino acid

<400> 1616
 Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu
 1 5 10 15
 Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp
 20 25 30
 Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn
 35 40 45
 Asp Val Tyr Val Tyr Trp Gln Thr Ser Glu Ser Lys Thr Val Val Thr
 50 55 60
 Tyr His Ile Pro Gln Asn Ser Ser Leu Glu Asn Val Asp Ser Arg Tyr
 65 70 75 80
 Arg Asn Arg Ala Leu Met Ser Pro Ala Gly Met Leu Arg Gly Asp Phe
 85 90 95
 Ser Leu Arg Leu Phe Asn Val Thr Pro Gln Asp Glu Gln Lys Phe His
 100 105 110
 Cys Leu Val Leu Ser Gln Ser Leu Gly Phe Gln Glu Val Leu Ser Xaa
 115 120 125
 Glu Val Thr Leu His Val Ala Ala Asn Phe Ser Val Pro Val Val Ser

| | | |
|---|-----|-----|
| 130 | 135 | 140 |
| Ala Pro His Ser Pro Ser Gln Asp Glu Leu Thr Phe Thr Cys Thr Ser | | |
| 145 | 150 | 155 |
| Ile Asn Gly Tyr Pro Arg Pro Asn Val Tyr Trp Ile Asn Lys Thr Asp | | |
| | 165 | 170 |
| | | 175 |
| Asn Ser Leu Leu Asp Gln Ala Leu Gln Asn Asp Thr Val Phe Leu Asn | | |
| | 180 | 185 |
| | | 190 |
| Met Arg Gly Leu Tyr Asp Val Val Ser Val Leu Arg Ile Ala Arg Thr | | |
| | 195 | 200 |
| | | 205 |
| Pro Ser Val Asn Ile Gly Cys Cys Ile Glu Asn Val Leu Leu Gln Gln | | |
| | 210 | 215 |
| | | 220 |
| Asn Leu Thr Val Gly Ser Gln Thr Gly Asn Asp Ile Gly Glu Arg Asp | | |
| | 225 | 230 |
| | | 235 |
| Lys Ile Thr Glu Asn Pro Val Ser Thr Gly Glu Lys Asn Ala Ala Thr | | |
| | 245 | 250 |
| | | 255 |
| Trp Ser Ile Leu Ala Val Leu Cys Leu Leu Val Val Val Ala Val Ala | | |
| | 260 | 265 |
| | | 270 |
| Ile Gly Trp Val Cys Arg Asp Arg Cys Leu Gln His Ser Tyr Ala Gly | | |
| | 275 | 280 |
| | | 285 |
| Ala Trp Ala Val Ser Pro Glu Thr Glu Leu Thr Gly His Val | | |
| | 290 | 295 |
| | | 300 |

<210> 1617

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any amino acid

<400> 1617

| |
|---|
| Met Asn Thr Leu Val Leu Trp Ile Phe Gly Phe Leu Ile Cys Leu Gly |
| 1 5 10 15 |
| Ile Ile Leu Ala Ile Gly Asn Ser Ile Trp Glu Ser Gln Thr Gly Asp |
| 20 25 30 |
| Gln Phe Arg Thr Phe Leu Phe Trp Asn Glu Gly Glu Lys Ser Ser Val |
| 35 40 45 |
| Phe Ser Gly Phe Leu Thr Phe Trp Ser Tyr Ile Ile Ile Leu Asn Thr |
| 50 55 60 |
| Val Val Pro Ile Ser Leu Tyr Val Ser Val Glu Val Ile Arg Leu Gly |
| 65 70 75 80 |
| His Ser Tyr Phe Ile Asn Trp Asp Arg Lys Met Tyr Tyr Xaa Arg Lys |

85 90 95
 Ala Ile Pro Ala Val Ala Arg Thr Thr Thr Leu Asn Glu
 100 105

<210> 1618
 <211> 46
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any amino acid

<400> 1618
 Ile Asn His Val Phe Ile Trp Gly Ser Ile Ala Ile Tyr Phe Ser Ile
 1 5 10 15
 Leu Phe Thr Met His Ser Asn Gly Ile Phe Gly Ile Phe Pro Asn Gln
 20 25 30
 Phe Pro Phe Val Gly Asn Ala Arg His Ser Leu Thr Xaa Lys
 35 40 45

<210> 1619
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 1619
 Thr Val Ala Ile Tyr Asp
 1 5

<210> 1620
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 1620
 Phe Leu Val Cys Leu Leu Leu Gly Pro Arg Ser
 1 5 10

<210> 1621
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any amino acid

<400> 1621
 Lys Ser Gln Met Gln Ser Phe Thr Ile Val Thr Ala Tyr Gly Arg Cys
 1 5 10 15
 Leu Ser Leu Thr Cys Leu Pro Thr Leu Asn Gln Met Leu Val Phe Lys
 20 25 30
 Ser Asn Xaa Ser Leu Val Ser Pro His Xaa Leu Thr Phe Xaa Asn Ile
 35 40 45
 Phe Ala Arg Phe Glu Asn Phe Gln
 50 55

<210> 1622
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1622
 Asn Tyr Asn Arg Gly Gly Thr Phe Leu Tyr Gln Lys Ala Lys Ile Lys
 1 5 10 15
 His His Val Leu Met Val Phe Tyr Lys Ser Thr Ser Asn Ser Thr Glu
 20 25 30
 Ser Leu Ile Trp Ser Leu Leu Asn Ser Trp Ser Asp Lys Val Thr Phe
 35 40 45
 Pro Lys Arg Val Arg
 50

<210> 1623
 <211> 566
 <212> PRT
 <213> Homo sapiens

<400> 1623
 Met Ala Pro Leu Ala Leu His Leu Leu Val Leu Val Pro Ile Leu Leu
 1 5 10 15
 Ser Leu Val Ala Ser Gln Asp Trp Lys Ala Glu Arg Ser Gln Asp Pro
 20 25 30
 Phe Glu Lys Cys Met Gln Asp Pro Asp Tyr Glu Gln Leu Leu Lys Val
 35 40 45
 Val Thr Trp Gly Leu Asn Arg Thr Leu Lys Pro Gln Arg Val Ile Val

| 50 | 55 | 60 |
|-------------------------|-----------------------------|-------------------------|
| Val Gly Ala Gly Val | Ala Gly Leu Val | Ala Lys Val Leu Ser Asp |
| 65 | 70 | 75 80 |
| Ala Gly His Lys Val | Thr Ile Leu Glu Ala | Asp Asn Arg Ile Gly Gly |
| | 85 | 90 95 |
| Arg Ile Phe Thr Tyr Arg | Asp Gln Asn Thr Gly Trp Ile | Gly Glu Leu |
| | 100 | 105 110 |
| Gly Ala Met Arg Met Pro | Ser Ser His Arg Ile Leu | His Lys Leu Cys |
| | 115 | 120 125 |
| Gln Gly Leu Gly Leu Asn | Leu Thr Lys Phe Thr Gln | Tyr Asp Lys Asn |
| | 130 | 135 140 |
| Thr Trp Thr Glu Val His | Glu Val Lys Leu Arg Asn | Tyr Val Val Glu |
| | 145 | 150 155 160 |
| Lys Val Pro Glu Lys Leu | Gly Tyr Ala Leu Arg Pro | Gln Glu Lys Gly |
| | 165 | 170 175 |
| His Ser Pro Glu Asp Ile | Tyr Gln Met Ala Leu Asn | Gln Ala Leu Lys |
| | 180 | 185 190 |
| Asp Leu Lys Ala Leu Gly | Cys Arg Lys Ala Met Lys | Lys Phe Glu Arg |
| | 195 | 200 205 |
| His Thr Leu Leu Glu Tyr | Leu Leu Gly Glu Gly Asn | Leu Ser Arg Pro |
| | 210 | 215 220 |
| Ala Val Gln Leu Leu Gly | Asp Val Met Ser Glu Asp | Gly Phe Phe Tyr |
| | 225 | 230 235 240 |
| Leu Ser Phe Ala Glu Ala | Leu Arg Ala His Ser Cys | Leu Ser Asp Arg |
| | 245 | 250 255 |
| Leu Gln Tyr Ser Arg Ile | Val Gly Gly Trp Asp Leu | Leu Pro Arg Ala |
| | 260 | 265 270 |
| Leu Leu Ser Ser Leu Ser | Gly Leu Val Leu Leu Asn | Ala Pro Val Val |
| | 275 | 280 285 |
| Ala Met Thr Gln Gly Pro | His Asp Val His Val Gln | Ile Glu Thr Ser |
| | 290 | 295 300 |
| Pro Pro Ala Arg Asn Leu | Lys Val Leu Lys Ala Asp | Val Val Leu Leu |
| | 305 | 310 315 320 |
| Thr Ala Ser Gly Pro Ala | Val Lys Arg Ile Thr Phe | Ser Pro Pro Leu |
| | 325 | 330 335 |
| Pro Arg His Met Gln Glu | Ala Leu Arg Arg Leu His | Tyr Val Pro Ala |
| | 340 | 345 350 |
| Thr Lys Val Phe Leu Ser | Phe Arg Arg Pro Phe Trp | Arg Glu Glu His |
| | 355 | 360 365 |
| Ile Glu Gly Gly His Ser | Asn Thr Asp Arg Pro Ser | Arg Met Ile Phe |
| | 370 | 375 380 |

Tyr Pro Pro Pro Arg Glu Gly Ala Leu Leu Leu Ala Ser Tyr Thr Trp
 385 390 395 400
 Ser Asp Ala Ala Ala Ala Phe Ala Gly Leu Ser Arg Glu Glu Ala Leu
 405 410 415
 Arg Leu Ala Leu Asp Asp Val Ala Ala Leu His Gly Pro Val Val Arg
 420 425 430
 Gln Leu Trp Asp Gly Thr Gly Val Val Lys Arg Trp Ala Glu Asp Gln
 435 440 445
 His Ser Gln Gly Gly Phe Val Val Gln Pro Pro Ala Leu Trp Gln Thr
 450 455 460
 Glu Lys Asp Asp Trp Thr Val Pro Tyr Gly Arg Ile Tyr Phe Ala Gly
 465 470 475 480
 Glu His Thr Ala Tyr Pro His Gly Trp Val Glu Thr Ala Val Lys Leu
 485 490 495
 Leu Arg Ala Ala Ile Lys Ile Asn Ser Arg Lys Gly Pro Ala Ser Asp
 500 505 510
 Thr Ala Ser Pro Glu Gly His Ala Ser Asp Met Glu Gly Gln Gly His
 515 520 525
 Val His Gly Val Ala Ser Ser Pro Ser His Asp Leu Ala Lys Glu Glu
 530 535 540
 Gly Ser His Pro Pro Val Gln Gly Gln Leu Ser Leu Gln Asn Thr Thr
 545 550 555 560
 His Thr Arg Thr Ser His
 565

<210> 1624

<211> 319

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (115)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (213)

<223> Xaa equals any amino acid

<400> 1624

Met Ala Pro Leu Ala Leu His Leu Leu Val Leu Val Pro Ile Leu Leu

| 1 | 5 | 10 | 15 |
|-----------------|-----------------|-----------------|-----------------|
| Ser Leu Val Ala | Ser Gln Asp Trp | Lys Ala Glu Arg | Ser Gln Asp Pro |
| 20 | | 25 | 30 |
| Phe Glu Lys Cys | Met Gln Asp Pro | Asp Tyr Glu Gln | Leu Leu Lys Val |
| 35 | 40 | | 45 |
| Thr Ile Leu Glu | Ala Asp Asn Arg | Ile Gly Gly Arg | Ile Phe Thr Tyr |
| 50 | 55 | 60 | |
| Arg Asp Gln Xaa | Thr Gly Trp Ile | Gly Glu Leu Gly | Ala Met Arg Met |
| 65 | 70 | 75 | 80 |
| Pro Ser Ser His | Arg Ile Leu His | Lys Leu Cys Gln | Gly Leu Gly Leu |
| | 85 | 90 | 95 |
| Asn Leu Thr Lys | Phe Thr Gln Tyr | Asp Lys Asn Thr | Trp Thr Glu Val |
| 100 | | 105 | 110 |
| His Glu Xaa Lys | Leu Arg Asn Tyr | Val Val Glu Lys | Val Pro Glu Lys |
| 115 | 120 | 125 | |
| Leu Gly Tyr Ala | Leu Arg Pro Gln | Glu Lys Gly His | Ser Pro Glu Asp |
| 130 | 135 | 140 | |
| Ile Tyr Gln Met | Ala Leu Asn Gln | Ala Leu Lys Asp | Leu Lys Ala Leu |
| 145 | 150 | 155 | 160 |
| Gly Cys Arg Lys | Ala Met Lys Lys | Phe Glu Arg His | Thr Leu Leu Glu |
| | 165 | 170 | 175 |
| Tyr Leu Leu Gly | Glu Gly Asn Leu | Ser Arg Pro Ala | Val Gln Leu Leu |
| 180 | 185 | | 190 |
| Gly Asp Val Met | Ser Glu Asp Gly | Phe Phe Tyr Leu | Ser Phe Ala Glu |
| 195 | 200 | 205 | |
| Ala Leu Arg Ala | Xaa Ser Cys Leu | Ser Asp Arg Leu | Gln Tyr Ser Arg |
| 210 | 215 | 220 | |
| Ile Val Gly Gly | Trp Asp Leu Leu | Pro Arg Ala Leu | Leu Ser Ser Leu |
| 225 | 230 | 235 | 240 |
| Ser Gly Leu Val | Leu Leu Asn Ala | Pro Val Val Ala | Met Thr Gln Gly |
| | 245 | 250 | 255 |
| Pro His Asp Val | His Val Gln Ile | Glu Thr Ser Pro | Pro Ala Arg Asn |
| 260 | | 265 | 270 |
| Leu Lys Val Leu | Lys Ala Asp Val | Val Val Leu Leu | Thr Ala Ser Gly |
| 275 | 280 | 285 | |
| Ala Val Lys Arg | Ile Thr Phe Ser | Pro Arg Cys Pro | Ala Thr Cys Arg |
| 290 | 295 | 300 | |
| Arg Arg Cys Gly | Gly Cys Thr Thr | Cys Arg Pro Pro | Arg Cys Ser |
| 305 | 310 | 315 | |

<210> 1625
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1625
 Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln Met
 1 5 10 15
 Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu
 20 25 30
 Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser
 35 40 45
 Val Ser Asn Thr Ile Cys Ile
 50 55

<210> 1626
 <211> 99
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals any amino acid

<400> 1626
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp
 20 25 30
 Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala
 35 40 45
 Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly
 50 55 60
 Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Glu
 65 70 75 80
 Leu Leu Leu Arg Ser Arg Ala Leu Ala Thr Xaa Arg Arg Ser Ala Arg
 85 90 95
 Val Thr Gly

<210> 1627
 <211> 214
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (199)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (206)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (214)

<223> Xaa equals any amino acid

<400> 1627

Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro
 20 25 30

Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Arg Asp
 35 40 45

Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly
 50 55 60

Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg
 65 70 75 80

Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro
 85 90 95

Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys
 100 105 110

Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp
 115 120 125

Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg
 130 135 140

Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg
 145 150 155 160

Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser
 165 170 175

Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro
 180 185 190

Phe Val Gly Gly Thr Ile Xaa Leu Leu Lys Asp Gly Leu Xaa Arg Val
 195 200 205

Gly Ser Ala Gln Cys Xaa
 210

<210> 1628

<211> 43

<212> PRT

<213> Homo sapiens

<400> 1628

Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
1 5 10 15

Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Ser Ala Cys Ser Pro Thr
20 25 30

Ser Arg Leu Asn Ser Leu Arg Ser Leu Ile Pro
35 40

<210> 1629

<211> 44

<212> PRT

<213> Homo sapiens

<400> 1629

Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala
1 5 10 15

Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly
20 25 30

Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
35 40

<210> 1630

<211> 333

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (111)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (227)

<223> Xaa equals any amino acid

<400> 1630

Met Leu Thr Gly Ile Ala Val Gly Ala Leu Leu Ala Leu Ala Leu Val
1 5 10 15

Gly Val Leu Ile Leu Phe Met Phe Arg Arg Leu Arg Gln Phe Arg Gln
20 25 30

Ala Gln Pro Thr Pro Gln Tyr Arg Phe Arg Lys Arg Asp Lys Val Met
35 40 45

Phe Tyr Gly Arg Lys Ile Met Arg Lys Val Thr Thr Leu Pro Asn Thr
 50 55 60
 Leu Val Glu Asn Thr Ala Leu Pro Arg Gln Arg Ala Arg Lys Arg Thr
 65 70 75 80
 Lys Val Leu Ser Leu Ala Lys Arg Ile Leu Arg Phe Lys Lys Glu Tyr
 85 90 95
 Pro Gly Leu Xaa Pro Lys Asp Pro Arg Pro Ser Leu Leu Glu Xaa Asp
 100 105 110
 Phe Thr Glu Phe Asp Val Lys Asn Ser His Leu Pro Ser Glu Val Leu
 115 120 125
 Tyr Met Leu Lys Asn Val Arg Val Leu Gly His Phe Glu Lys Pro Leu
 130 135 140
 Phe Leu Glu Leu Cys Lys His Ile Val Phe Val Gln Leu Gln Glu Gly
 145 150 155 160
 Glu His Val Phe Gln Pro Arg Glu Pro Asp Pro Ser Ile Cys Val Val
 165 170 175
 Gln Asp Gly Arg Leu Glu Val Cys Ile Gln Asp Thr Asp Gly Thr Glu
 180 185 190
 Val Val Val Lys Glu Val Leu Ala Gly Asp Ser Val His Ser Leu Leu
 195 200 205
 Ser Ile Leu Asp Ile Ile Thr Gly His Ala Ala Pro Tyr Lys Thr Val
 210 215 220
 Ser Val Xaa Ala Ala Ile Pro Ser Thr Ile Leu Arg Leu Pro Ala Ala
 225 230 235 240
 Ala Phe His Gly Val Phe Glu Lys Tyr Pro Glu Thr Leu Val Arg Val
 245 250 255
 Val Gln Ile Ile Met Val Arg Leu Gln Arg Val Thr Phe Leu Ala Leu
 260 265 270
 His Asn Tyr Leu Gly Leu Thr Thr Glu Leu Phe Asn Ala Glu Ser Gln
 275 280 285
 Ala Ile Pro Leu Val Ser Val Ala Ser Val Ala Ala Gly Lys Ala Lys
 290 295 300
 Lys Gln Val Phe Tyr Gly Glu Glu Glu Arg Leu Lys Lys Pro Pro Arg
 305 310 315 320
 Leu Gln Glu Ser Cys Asp Ser Asp His Gly Gly Gly Arg
 325 330

<210> 1631

<211> 365

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (144)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (201)
 <223> Xaa equals any amino acid

<400> 1631
 Met Phe Val Gly Leu Met Ala Phe Leu Leu Ser Phe Tyr Leu Ile Phe
 1 5 10 15
 Thr Asn Glu Gly Arg Ala Leu Lys Thr Ala Thr Ser Leu Ala Glu Gly
 20 25 30
 Leu Ser Leu Val Val Ser Pro Asp Ser Ile His Ser Val Ala Pro Glu
 35 40 45
 Asn Glu Gly Arg Leu Val His Ile Ile Gly Ala Leu Arg Thr Ser Lys
 50 55 60
 Leu Leu Ser Asp Pro Asn Tyr Gly Val His Leu Pro Ala Val Lys Leu
 65 70 75 80
 Arg Arg His Val Glu Met Tyr Gln Trp Val Glu Thr Glu Glu Ser Arg
 85 90 95
 Glu Tyr Thr Glu Asp Gly Gln Val Lys Lys Glu Thr Arg Tyr Ser Tyr
 100 105 110
 Asn Thr Glu Trp Arg Ser Glu Ile Ile Asn Ser Lys Asn Phe Asp Arg
 115 120 125
 Glu Ile Gly His Lys Asn Pro Ser Ala Met Ala Val Glu Ser Phe Xaa
 130 135 140
 Ala Thr Ala Pro Phe Val Gln Ile Gly Arg Phe Phe Leu Ser Ser Gly
 145 150 155 160
 Leu Ile Asp Lys Val Asp Asn Phe Lys Ser Leu Ser Leu Ser Lys Leu
 165 170 175
 Glu Asp Pro His Val Asp Ile Ile Arg Arg Gly Asp Phe Phe Tyr His
 180 185 190
 Ser Glu Asn Pro Lys Tyr Pro Glu Xaa Gly Asp Leu Arg Val Ser Phe
 195 200 205
 Ser Tyr Ala Gly Leu Ser Gly Asp Asp Pro Asp Leu Gly Pro Ala His
 210 215 220
 Val Val Thr Val Ile Ala Arg Gln Arg Gly Asp Gln Leu Val Pro Phe
 225 230 235 240
 Ser Thr Lys Ser Gly Asp Thr Leu Leu Leu Leu His His Gly Asp Phe
 245 250 255
 Ser Ala Glu Glu Val Phe His Arg Glu Leu Arg Ser Asn Ser Met Lys
 260 265 270

Thr Trp Gly Leu Arg Ala Ala Gly Trp Met Ala Met Phe Met Gly Leu
 275 280 285
 Asn Leu Met Thr Arg Ile Leu Tyr Thr Leu Val Asp Trp Phe Pro Val
 290 295 300
 Phe Arg Asp Leu Val Asn Ile Gly Leu Lys Ala Phe Ala Phe Cys Val
 305 310 315 320
 Ala Thr Ser Leu Thr Leu Leu Thr Val Ala Ala Gly Trp Leu Phe Tyr
 325 330 335
 Arg Pro Leu Trp Ala Leu Leu Ile Ala Gly Leu Ala Leu Val Pro Ile
 340 345 350
 Leu Val Ala Arg Thr Arg Val Pro Ala Lys Lys Leu Glu
 355 360 365

<210> 1632
 <211> 220
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (159)
 <223> Xaa equals any amino acid

<400> 1632
 Met Lys Leu Leu Leu Trp Ala Cys Ile Val Cys Val Ala Phe Ala Arg
 1 5 10 15
 Lys Arg Arg Phe Pro Phe Ile Gly Glu Asp Asp Asn Asp Asp Gly His
 20 25 30
 Pro Leu His Pro Ser Leu Asn Ile Pro Tyr Gly Ile Arg Asn Leu Pro
 35 40 45
 Pro Pro Leu Tyr Tyr Arg Pro Val Asn Thr Val Pro Ser Tyr Pro Gly
 50 55 60
 Asn Thr Tyr Thr Asp Thr Gly Leu Pro Ser Tyr Pro Trp Ile Leu Thr
 65 70 75 80
 Ser Pro Gly Phe Pro Tyr Val Tyr His Ile Arg Gly Phe Pro Leu Ala
 85 90 95
 Thr Gln Leu Asn Val Pro Pro Leu Pro Pro Arg Gly Phe Pro Phe Val
 100 105 110
 Pro Pro Ser Arg Phe Phe Ser Ala Ala Ala Ala Pro Ala Ala Pro Pro
 115 120 125
 Ile Ala Ala Glu Pro Ala Ala Ala Ala Pro Leu Thr Ala Thr Pro Val
 130 135 140
 Ala Ala Glu Pro Ala Ala Arg Gly Pro Val Ala Ala Glu Pro Xaa Gly
 145 150 155 160

Arg Gly His Leu Leu Glu Leu Glu Pro Ala Ala Glu Ala Pro Val Ala
 165 170 175

Ala Glu Pro Ala Ala Glu Ala Pro Val Gly Val Glu Pro Ala Ala Glu
 180 185 190

Glu Pro Ser Pro Ala Glu Pro Ala Thr Ala Lys Pro Ala Ala Pro Glu
 195 200 205

Pro His Pro Ser Pro Ser Leu Glu Gln Ala Asn Gln
 210 215 220

<210> 1633

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (55)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (58)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (67)

<223> Xaa equals any amino acid

<400> 1633

Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15

Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30

Ile Cys Ser Gln Arg Asn Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
 35 40 45

Leu Gln Thr Thr Trp Gly Xaa Pro Asp Xaa Gln Phe Pro Gly Cys Pro
 50 55 60

His Pro Xaa Arg Val Thr Leu Asn Ala Arg Gln Met Gly Asn Gly Lys
 65 70 75 80

Glu Lys Lys Ala Ala Asp Leu Lys Leu Lys Phe Pro Gln Lys Arg Phe
 85 90 95

Tyr Leu Ser Ala Phe Ser Glu Arg Ile Lys Ala Phe
 100 105

<210> 1634
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any amino acid

<400> 1634
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30
 Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
 35 40 45
 Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser
 50 55 60
 Pro Pro Leu Xaa Ser Asp Pro Lys Arg
 65 70

<210> 1635
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1635
 Met Asp Arg Gly Val Met Cys Leu Leu Ala Ser Trp Pro Gly Leu Gly
 1 5 10 15
 Ala Gln Phe Cys Gly Ala Gly Val Cys Pro Leu Arg Val Pro Ser Leu


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<210> 1636
<211> 67
<212> PRT
<213> Homo sapiens
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<210> 1637
<211> 83
<212> PRT
<213> Homo sapiens
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986

<210> 1638
 <211> 29
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any amino acid

<400> 1638
 Met Tyr Val Trp Val Ser Gly Ala Leu Val Leu Val Leu Ser Pro His
 1 5 10 15
 Pro Ala Ser Arg Thr Leu Cys Leu Met Xaa Gln Ala Xaa
 20 25

<210> 1639
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1639
 Pro His Cys Ala Ser Arg Ala Val Pro Tyr Pro Pro Gly Pro Ala Ala
 1 5 10 15
 Ala Ala Phe Pro Arg Gln Gly Leu Gln Leu Ala Thr Thr Cys Gly His
 20 25 30
 Ser Ser Asp Pro Ala Cys Phe Gly Gln Cys Pro Cys His Leu Cys Ala
 35 40 45
 Asn His Pro Gly Tyr Leu Trp Ser Tyr Arg Val His Leu Ser Pro Gln
 50 55 60
 Pro His Leu His Pro Pro Gln His Leu Leu Pro Pro His Cys Thr Leu
 65 70 75 80

<210> 1640
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1640
 Met Phe Val Phe Val Val Val Ala Trp Thr Gly Asn Ser Ala Gly Leu
 1 5 10 15
 Leu Leu Tyr Ala Ser Leu Cys Leu Pro Ala Cys Ala Arg Gly Cys Gln

20 25 30
 Gly Leu Leu Gly Gln Ser Gly His Pro Phe Leu Gln Gly Ser Leu Gln
 35 40 45
 Gln Leu Ala Cys Pro Trp Trp Gly
 50 55

<210> 1641
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any amino acid

<400> 1641
 Met Glu Leu Leu Gln Ala Lys Lys Leu Leu Leu Leu Gly Leu Phe
 1 5 10 15
 Val Ser Cys Xaa Ser Asn Ile Arg Lys Thr Glu Pro Cys Phe Gly Leu
 20 25 30
 Asp Ser Ile Thr Phe Xaa Asp Pro Lys Lys Lys Cys Leu Ser Asn Leu
 35 40 45
 Lys Ser Cys
 50

<210> 1642
 <211> 1
 <212> PRT
 <213> Homo sapiens

<400> 1642
 Ala
 1

<210> 1643
 <211> 415
 <212> PRT
 <213> Homo sapiens

<400> 1643
 Val Gly Leu Val Ser Met Leu Gly Ile Pro Ile Pro Gly Ala Glu Gly
 1 5 10 15
 Ala Pro Val Leu Asn Ser Leu Val Phe Leu Ser Gly Gln Ser Thr Pro

| 20 | | | | | 25 | | | | | 30 | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Lys | Gly | Val | Gly | Ile | Ala | Gly | Ala | Val | Cys | Val | Ser | Ser | Lys |
| | 35 | | | | | | 40 | | | | | 45 | | | |
| Leu | Arg | Pro | Arg | Gly | Gln | Cys | Arg | Leu | Glu | Phe | Ser | Leu | Ala | Trp | Asp |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Met | Pro | Arg | Ile | Met | Phe | Gly | Ala | Lys | Gly | Gln | Val | His | Tyr | Arg | Arg |
| | 65 | | | | | 70 | | | | | 75 | | | | 80 |
| Tyr | Thr | Arg | Phe | Phe | Gly | Gln | Asp | Gly | Asp | Ala | Ala | Pro | Ala | Leu | Ser |
| | | | | 85 | | | | | 90 | | | | | 95 | |
| His | Tyr | Ala | Leu | Cys | Arg | Tyr | Ala | Glu | Trp | Glu | Glu | Arg | Ile | Ser | Ala |
| | | | 100 | | | | | 105 | | | | | 110 | | |
| Trp | Gln | Ser | Pro | Val | Leu | Asp | Asp | Arg | Ser | Leu | Pro | Ala | Trp | Tyr | Lys |
| | | 115 | | | | | 120 | | | | | 125 | | | |
| Ser | Ala | Leu | Phe | Asn | Glu | Leu | Tyr | Phe | Leu | Ala | Asp | Gly | Gly | Thr | Val |
| | 130 | | | | | 135 | | | | | 140 | | | | |
| Trp | Leu | Glu | Val | Leu | Glu | Asp | Ser | Leu | Pro | Glu | Glu | Leu | Gly | Arg | Asn |
| | 145 | | | | | 150 | | | | | 155 | | | | 160 |
| Met | Cys | His | Leu | Arg | Pro | Thr | Leu | Arg | Asp | Tyr | Gly | Arg | Phe | Gly | Tyr |
| | | | 165 | | | | | 170 | | | | | | 175 | |
| Leu | Glu | Gly | Gln | Glu | Tyr | Arg | Met | Tyr | Asn | Thr | Tyr | Asp | Val | His | Phe |
| | | | 180 | | | | | 185 | | | | | 190 | | |
| Tyr | Ala | Ser | Phe | Ala | Leu | Ile | Met | Leu | Trp | Pro | Lys | Leu | Glu | Leu | Ser |
| | | 195 | | | | | 200 | | | | | 205 | | | |
| Leu | Gln | Tyr | Asp | Met | Ala | Leu | Ala | Thr | Leu | Arg | Glu | Asp | Leu | Thr | Arg |
| | 210 | | | | | 215 | | | | | 220 | | | | |
| Arg | Arg | Tyr | Leu | Met | Ser | Gly | Val | Met | Ala | Pro | Val | Lys | Arg | Arg | Asn |
| | 225 | | | | | 230 | | | | | 235 | | | | 240 |
| Val | Ile | Pro | His | Asp | Ile | Gly | Asp | Pro | Asp | Asp | Glu | Pro | Trp | Leu | Arg |
| | | | 245 | | | | | 250 | | | | | | 255 | |
| Val | Asn | Ala | Tyr | Leu | Ile | His | Asp | Thr | Ala | Asp | Trp | Lys | Asp | Leu | Asn |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Leu | Lys | Phe | Val | Leu | Gln | Val | Tyr | Arg | Asp | Tyr | Tyr | Leu | Thr | Gly | Asp |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Gln | Asn | Phe | Leu | Lys | Asp | Met | Trp | Pro | Val | Cys | Leu | Ala | Val | Met | Glu |
| | 290 | | | | | 295 | | | | | 300 | | | | |
| Ser | Glu | Met | Lys | Phe | Asp | Lys | Asp | His | Asp | Gly | Leu | Ile | Glu | Asn | Gly |
| | 305 | | | | | 310 | | | | | 315 | | | | 320 |
| Gly | Tyr | Ala | Asp | Gln | Thr | Tyr | Asp | Gly | Trp | Val | Thr | Thr | Gly | Pro | Ser |
| | | | 325 | | | | | 330 | | | | | | 335 | |
| Ala | Tyr | Cys | Gly | Gly | Leu | Trp | Leu | Ala | Ala | Val | Ala | Val | Met | Val | Gln |
| | | | 340 | | | | | 345 | | | | | 350 | | |

Met Ala Ala Leu Cys Gly Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser
 355 360 365

Ile Leu Ser Arg Gly Gln Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly
 370 375 380

Arg Tyr Tyr Asn Tyr Asp Ser Ser Ser Arg Pro Gln Ser Arg Ser Val
 385 390 395 400

Met Ser Asp Gln Cys Ala Gly Gln Trp Phe Leu Lys Ala Cys Gly
 405 410 415

<210> 1644

<211> 201

<212> PRT

<213> Homo sapiens

<400> 1644

Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu Leu
 1 5 10 15

Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
 20 25 30

Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
 35 40 45

Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
 50 55 60

Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
 65 70 75 80

Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
 85 90 95

Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
 100 105 110

Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
 115 120 125

Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
 130 135 140

Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
 145 150 155 160

Gly Met Ala Met Val Pro Ala Leu Leu Gly Leu Ile Gly Tyr His Leu
 165 170 175

Tyr Arg Lys Ala Asn Arg Pro Lys Val Ser Lys Lys Lys Leu Lys Glu
 180 185 190

Glu Lys Arg Asn Lys Ser Lys Lys Lys
 195 200

<210> 1645
 <211> 203
 <212> PRT
 <213> Homo sapiens

<400> 1645

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Met Thr Leu Arg Pro Ser Leu Leu Pro Leu His Leu Leu Leu Leu
 1              5              10              15

Leu Leu Ser Ala Ala Val Cys Arg Ala Glu Ala Gly Leu Glu Thr Glu
      20              25              30

Ser Pro Val Arg Thr Leu Gln Val Glu Thr Leu Val Glu Pro Pro Glu
      35              40              45

Pro Cys Ala Glu Pro Ala Ala Phe Gly Asp Thr Leu His Ile His Tyr
      50              55              60

Thr Gly Ser Leu Val Asp Gly Arg Ile Ile Asp Thr Ser Leu Thr Arg
      65              70              75              80

Asp Pro Leu Val Ile Glu Leu Gly Gln Lys Gln Val Ile Pro Gly Leu
      85              90              95

Glu Gln Ser Leu Leu Asp Met Cys Val Gly Glu Lys Arg Arg Ala Ile
      100             105             110

Ile Pro Ser His Leu Ala Tyr Gly Lys Arg Gly Phe Pro Pro Ser Val
      115             120             125

Pro Ala Asp Ala Val Val Gln Tyr Asp Val Glu Leu Ile Ala Leu Ile
      130             135             140

Arg Ala Asn Tyr Trp Leu Lys Leu Val Lys Gly Ile Leu Pro Leu Val
      145             150             155             160

Gly Met Ala Met Val Pro Pro Ser Trp Ala Ser Leu Gly Ile Thr Tyr
      165             170             175

Thr Glu Arg Pro Ile Asp Pro Lys Ser Pro Lys Arg Ser Ser Arg Lys
      180             185             190

Arg Asn Glu Thr Arg Ala Lys Arg Asn Asn Lys
      195             200

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<210> 1646
 <211> 313
 <212> PRT
 <213> Homo sapiens

<400> 1646

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Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr
 1              5              10              15

Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg
      20              25              30

```

Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr
 35 40 45
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr
 50 55 60
 Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile
 65 70 75 80
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu
 85 90 95
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr
 100 105 110
 Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile
 115 120 125
 Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr
 130 135 140
 Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr
 145 150 155 160
 Leu Phe Ala Tyr Leu Met Cys Leu Tyr Gly Asn His Lys Thr Ser Ala
 165 170 175
 Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp
 180 185 190
 Ala Val Phe Cys Ala Gly Asn Val Ile Ala Gln Lys Leu Thr Glu Ala
 195 200 205
 Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys
 210 215 220
 Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu Ala Tyr
 225 230 235 240
 Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro
 245 250 255
 Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val Val Asn Gly
 260 265 270
 Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe
 275 280 285
 Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro
 290 295 300
 His Leu Leu Ser Gln Gln Ile Asn Lys
 305 310

<210> 1647

<211> 134

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any amino acid

<400> 1647
 Met Ala Gln Leu Glu Gly Tyr Xaa Phe Ser Ala Ala Leu Ser Cys Thr
 1 5 10 15
 Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg
 20 25 30
 Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr
 35 40 45
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr
 50 55 60
 Leu Pro Gly Leu Tyr Leu Val Ser Xaa Gly Val Xaa Lys Pro Ala Ile
 65 70 75 80
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu
 85 90 95
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr
 100 105 110
 Leu Leu Phe Cys Lys Tyr Asn Pro Glu Thr Arg Leu Pro Gln Val Ser
 115 120 125
 Arg Glu Ser Cys Gln His
 130

<210> 1648
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1648
 Met Ala Gly Pro Gly Trp Thr Leu Leu Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Gly Ser Met Ala Gly Tyr Gly Pro Gln Lys Lys Leu Asn Leu
 20 25 30
 Ser His Lys Gly Ile Gly Glu Pro Cys Gly Arg His Glu Glu Cys Gln
 35 40 45
 Ser Asn Cys Cys Thr Ile Asn Ser Leu Ala Pro His Thr Leu Cys Thr

50 55 60
 Pro Lys Thr Ile Phe Leu Gln Cys Leu Pro Trp Arg Lys Pro Asn Gly
 65 70 75 80
 Tyr Arg Cys Ser His Asp Ser Glu Cys Gln Ser Ser Cys Cys Val Arg
 85 90 95
 Asn Asn Ser Pro Gln Glu Leu Cys Thr Pro Gln Ser Val Phe Leu Gln
 100 105 110
 Cys Val Pro Trp Arg Lys Pro Asn Gly Asp Phe Cys Ser Ser His Gln
 115 120 125
 Glu Cys His Ser Gln Cys Cys Ile Gln Leu Arg Glu Tyr Ser Pro Phe
 130 135 140
 Arg Cys Ile Pro Arg Thr Gly Ile Leu Ala Gln Cys Leu Pro Leu
 145 150 155

<210> 1649
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1649
 Met Met Leu Pro Gln Trp Leu Leu Leu Leu Phe Leu Leu Phe Phe Phe
 1 5 10 15
 Leu Phe Leu Leu Thr Arg Gly Ser Leu Ser Pro Thr Lys Tyr Asn Leu
 20 25 30
 Leu Glu Leu Lys Glu Ser Cys Ile Arg Asn Gln Asp Cys Glu Thr Gly
 35 40 45
 Cys Cys Gln Arg Ala Pro Asp Asn Cys Glu Ser His Cys Ala Glu Lys
 50 55 60
 Gly Ser Glu Gly Ser Leu Cys Gln Thr Gln Val Phe Phe Gly Gln Tyr
 65 70 75 80
 Arg Ala Cys Pro Cys Leu Arg Asn Leu Thr Cys Ile Tyr Ser Lys Asn
 85 90 95
 Glu Lys Trp Leu Ser Ile Ala Tyr Gly Arg Cys Gln Lys Ile Gly Arg
 100 105 110
 Gln Lys Leu Ala Lys Lys Met Phe Phe
 115 120

<210> 1650
 <211> 161
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (104)

<223> Xaa equals any amino acid

<400> 1650

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Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu
 1             5             10             15

Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly
      20             25             30

Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp
      35             40             45

Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His
      50             55             60

Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys
      65             70             75             80

Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu
      85             90             95

Val Cys Pro Ser Val Arg Leu Xaa Gly Arg Pro Gly Pro Lys Trp Gly
      100            105            110

Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp
      115            120            125

Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly
      130            135            140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr
      145            150            155            160

Leu

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<210> 1651

<211> 291

<212> PRT

<213> Homo sapiens

<400> 1651

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Met Asp Cys Phe Ile Thr Phe Ser Ile Arg Glu Thr Thr Pro Ser Leu
 1             5             10             15

Ser Cys Thr Trp Ser Cys Lys Gly Trp Phe Ile Leu Ser Thr Pro Gly
      20             25             30

Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu Ser Leu His Tyr Leu
      35             40             45

Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu Phe Phe Phe Thr Leu
      50             55             60

Thr Cys Gly Thr Asn Pro Gly Ile Ile Thr Lys Ala Asn Glu Leu Leu
      65             70             75             80

Phe Leu His Val Tyr Glu Phe Asp Glu Val Met Phe Pro Lys Asn Val

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<210> 1652
<211> 184
<212> PRT
<213> Homo sapiens
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<400> 1652
Met  Leu  Phe  Leu  Phe  Ser  Met  Ala  Thr  Leu  Leu  Arg  Thr  Ser  Phe  Ser
  1                      5                      10                      15

Asp  Pro  Gly  Val  Ile  Pro  Arg  Ala  Leu  Pro  Asp  Glu  Ala  Ala  Phe  Ile
      20                      25                      30

Glu  Met  Glu  Ile  Glu  Ala  Thr  Asn  Gly  Ala  Val  Pro  Gln  Gly  Gln  Arg
      35                      40                      45

Pro  Pro  Pro  Arg  Ile  Lys  Asn  Phe  Gln  Ile  Asn  Asn  Gln  Ile  Val  Lys
      50                      55                      60

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Leu Lys Tyr Cys Tyr Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser
 65 70 75 80
 His Cys Ser Ile Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys
 85 90 95
 Pro Trp Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Tyr Phe Tyr
 100 105 110
 Leu Phe Ile Leu Ser Leu Ser Leu Leu Thr Ile Tyr Val Phe Ala Phe
 115 120 125
 Asn Ile Val Tyr Val Ala Leu Lys Ser Leu Lys Ile Gly Phe Leu Glu
 130 135 140
 Thr Leu Lys Gly Asn Ser Trp Asn Cys Ser Arg Ser Pro His Leu Leu
 145 150 155 160
 Leu Tyr Thr Leu Val Arg Arg Gly Thr Asp Trp Ile Ser Tyr Phe Pro
 165 170 175
 Arg Gly Ser Gln Pro Asp Asn Gln
 180

<210> 1653
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any amino acid

<400> 1653
 Met Lys Ala Ser Gln Cys Cys Cys Cys Leu Ser His Leu Leu Ala Ser
 1 5 10 15
 Val Leu Leu Leu Leu Leu Pro Glu Leu Ser Gly Xaa Leu Xaa Val
 20 25 30
 Leu Leu Gln Ala Ala Glu Ala Ala Pro Gly Xaa Gly Pro Pro Asp Pro
 35 40 45
 Arg Pro Gly His Tyr Arg Arg Cys His Arg Ala Leu Thr Pro Ala Gln
 50 55 60
 Gln Pro Gly Arg Gly Leu Ala Glu Ala Ala Gly Ala Ala Gly Leu Arg
 65 70 75 80

Gly Arg Gln Trp Gln Gln Pro Cys Gly Arg Ala
 85 90

<210> 1654

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (91)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (94)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (97)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (98)

<223> Xaa equals any amino acid

<400> 1654

Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
 1 5 10 15

Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
 20 25 30

Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
 35 40 45

Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
 50 55 60

Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
 65 70 75 80

Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp
 85 90 95

Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr
 100 105 110

Phe Ser Ser Gln Val Leu Leu Pro Leu Leu
 115 120

<210> 1655
 <211> 229
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (206)
 <223> Xaa equals any amino acid

<400> 1655
 Met Tyr Lys Leu Leu Leu Phe Asp Leu Leu Thr Val Leu Ala Val Ala
 1 5 10 15
 Leu Leu Ile Gln Phe Pro Arg Lys Leu Leu Cys Gly Leu Cys Pro Gly
 20 25 30
 Ala Leu Gly Arg Leu Ala Gly Thr Gln Glu Phe Gln Val Pro Asp Glu
 35 40 45
 Val Leu Gly Leu Ile Tyr Ala Gln Thr Val Val Trp Val Gly Ser Phe
 50 55 60
 Phe Cys Pro Leu Leu Pro Leu Leu Asn Thr Val Lys Phe Leu Leu Leu
 65 70 75 80
 Phe Tyr Leu Lys Lys Leu Thr Leu Phe Ser Thr Cys Ser Pro Ala Ala
 85 90 95
 Arg Thr Phe Arg Ala Ser Ala Ala Asn Phe Phe Phe Pro Leu Val Leu
 100 105 110
 Leu Leu Gly Leu Ala Ile Ser Ser Val Pro Leu Leu Tyr Ser Ile Phe
 115 120 125
 Leu Ile Pro Pro Ser Lys Leu Cys Gly Pro Phe Arg Gly Gln Ser Ser
 130 135 140
 Ile Trp Ala Gln Ile Pro Glu Ser Ile Ser Ser Leu Pro Glu Thr Thr
 145 150 155 160
 Gln Asn Phe Leu Phe Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu
 165 170 175
 Leu Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn
 180 185 190
 Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu
 195 200 205
 Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser
 210 215 220
 Thr Lys Pro Ala Leu
 225

<210> 1656

<211> 85
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any amino acid

<400> 1656
 Phe Leu Gly Thr Gln Ala Phe Ala Val Pro Leu Leu Leu Ile Ser Arg
 1 5 10 15
 Ser Gln Thr Phe Gly Tyr Asn Gly Arg Ala Cys Gln Glu Trp Leu Pro
 20 25 30
 Xaa Leu Ile Ser Ser Ile Leu Met Ala Tyr Thr Val Ala Leu Ala Asn
 35 40 45
 Ser Tyr Gly Arg Leu Ile Ser Glu Leu Lys Arg Gln Arg Xaa Thr Glu
 50 55 60
 Ala Gln Asn Lys Val Phe Leu Ala Arg Arg Ala Val Ala Leu Thr Ser
 65 70 75 80
 Thr Lys Pro Ala Leu
 85

<210> 1657
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1657
 Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala
 1 5 10 15
 Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
 20 25 30
 Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly
 35 40 45

<210> 1658
 <211> 549
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (398)
 <223> Xaa equals any amino acid

 <400> 1658
 Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys
 1 5 10 15
 Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Lys Pro
 20 25 30
 Lys Cys Pro Ala Val Cys Thr Cys Thr Lys Asp Asn Ala Leu Cys Glu
 35 40 45
 Asn Ala Arg Ser Ile Pro Arg Thr Val Pro Pro Asp Val Ile Ser Leu
 50 55 60
 Ser Phe Val Arg Ser Gly Phe Thr Glu Ile Ser Glu Gly Ser Phe Leu
 65 70 75 80
 Phe Thr Pro Ser Leu Gln Leu Leu Leu Phe Thr Ser Asn Ser Phe Asp
 85 90 95
 Val Ile Ser Asp Asp Ala Phe Ile Gly Leu Pro His Leu Glu Tyr Leu
 100 105 110
 Phe Ile Glu Asn Asn Asn Ile Lys Ser Ile Ser Arg His Thr Phe Arg
 115 120 125
 Gly Leu Lys Xaa Leu Ile His Leu Ser Leu Ala Asn Asn Asn Leu Gln
 130 135 140
 Thr Leu Pro Lys Asp Ile Phe Lys Gly Leu Asp Ser Leu Thr Asn Val
 145 150 155 160
 Asp Leu Arg Gly Asn Ser Phe Asn Cys Asp Cys Lys Leu Lys Trp Leu
 165 170 175
 Val Glu Trp Leu Gly His Thr Asn Ala Thr Val Glu Asp Ile Tyr Cys
 180 185 190
 Glu Gly Pro Pro Glu Tyr Lys Lys Arg Lys Ile Asn Ser Leu Ser Ser
 195 200 205
 Lys Asp Phe Asp Cys Ile Ile Thr Glu Phe Ala Lys Ser Gln Asp Leu
 210 215 220
 Pro Tyr Gln Ser Leu Ser Ile Asp Thr Phe Ser Tyr Leu Asn Asp Glu
 225 230 235 240
 Tyr Val Val Ile Ala Gln Pro Phe Thr Gly Lys Cys Ile Phe Leu Glu
 245 250 255
 Trp Asp His Val Glu Lys Thr Phe Arg Asn Tyr Asp Asn Ile Thr Gly
 260 265 270
 Thr Ser Thr Val Val Cys Lys Pro Ile Val Ile Glu Thr Gln Leu Tyr
 275 280 285

Val Ile Val Ala Gln Leu Phe Gly Gly Ser His Ile Tyr Lys Arg Asp
 290 295 300
 Ser Phe Ala Asn Lys Phe Ile Lys Ile Gln Asp Ile Glu Ile Leu Lys
 305 310 315 320
 Ile Arg Lys Pro Asn Asp Ile Glu Thr Phe Lys Ile Glu Asn Asn Trp
 325 330 335
 Tyr Phe Val Val Ala Asp Ser Ser Lys Ala Gly Phe Thr Thr Ile Tyr
 340 345 350
 Lys Trp Asn Gly Asn Gly Phe Tyr Ser His Gln Ser Leu His Ala Trp
 355 360 365
 Tyr Arg Asp Thr Asp Val Glu Tyr Leu Glu Ile Val Arg Thr Pro Gln
 370 375 380
 Thr Leu Arg Thr Pro His Leu Ile Leu Ser Ser Ser Ser Xaa Arg Pro
 385 390 395 400
 Val Ile Tyr Gln Trp Asn Lys Ala Thr Gln Leu Phe Thr Asn Gln Thr
 405 410 415
 Asp Ile Pro Asn Met Glu Asp Val Tyr Ala Val Lys His Phe Ser Val
 420 425 430
 Lys Gly Asp Val Tyr Ile Cys Leu Thr Arg Phe Ile Gly Asp Ser Lys
 435 440 445
 Val Met Lys Trp Gly Gly Ser Ser Phe Gln Asp Ile Gln Arg Met Pro
 450 455 460
 Ser Arg Gly Ser Met Val Phe Gln Pro Leu Gln Ile Asn Asn Tyr Gln
 465 470 475 480
 Tyr Ala Ile Leu Gly Ser Asp Tyr Ser Phe Thr Gln Val Tyr Asn Trp
 485 490 495
 Asp Ala Glu Lys Ala Lys Phe Val Lys Phe Gln Glu Leu Asn Val Gln
 500 505 510
 Ala Pro Arg Ser Phe Thr His Val Ser Ile Asn Lys Arg Asn Phe Leu
 515 520 525
 Phe Ala Ser Ser Phe Lys Gly Asn Thr Gln Ile Tyr Lys His Val Ile
 530 535 540
 Val Asp Leu Ser Ala
 545

<210> 1659

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1659

Met Gly Asn Ala Cys Ile Pro Leu Lys Arg Ile Ala Tyr Phe Leu Cys
 1 5 10 15

Leu Leu Ser Ala Leu Leu Leu Thr Glu Gly Lys Lys Pro Ala Asn Gln
 20 25 30
 Asn Ala Leu Pro Cys Val Leu Val Pro Lys Ile Met Leu Tyr Val Arg
 35 40 45
 Met Pro Asp Pro Phe His Ala Pro Phe Leu Leu Met Leu Ser His Tyr
 50 55 60
 Pro Leu
 65

<210> 1660
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (53)
 <223> Xaa equals any amino acid

<400> 1660
 Met His Arg Leu Trp Ile Gly Pro Ala Phe Phe Leu Met Thr Ser Leu
 1 5 10 15
 Ser Val Ser Gly Ala Val Ile Pro Arg Asn Gly Gly Pro Gly Gly Val
 20 25 30
 Ser Ser Gly Pro Cys Leu Leu Gln Leu Leu Cys Gly Gln Ala Gly Ser
 35 40 45
 Ser Thr Ile Arg Xaa Ile Pro Ser
 50 55

<210> 1661
 <211> 194
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any amino acid

<400> 1661
 Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly
 1 5 10 15
 Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp Thr Glu Glu Ser Tyr Ser
 20 25 30
 Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser
 35 40 45
 Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn Gly Val Cys

50 55 60
 Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr
 65 70 75 80
 Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys
 85 90 95
 Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys
 100 105 110
 Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg
 115 120 125
 Cys Asp Ala Lys Phe Arg Trp Cys Leu Xaa Ser Ile Cys Ser Asp Leu
 130 135 140
 Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu
 145 150 155 160
 Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe
 165 170 175
 Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Glu Lys Glu
 180 185 190
 Glu Leu

<210> 1662
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1662
 Leu Gln Glu Phe Gly Thr Ser Gly Thr Ser Ala Asn Thr Thr Ala Val
 1 5 10 15
 Ala Leu Asn Ala Pro Ala His Pro Ala Arg Leu Leu Pro Pro Gly Pro
 20 25 30
 Ala Val Ala Leu Leu Leu Leu Arg Gly Ser Cys Ser Leu Cys Cys Cys
 35 40 45
 His Gln Pro His Lys Ala Ser Cys Lys Ala Met Pro Ser Ala Gly Ser
 50 55 60
 Asn Val Pro
 65

<210> 1663
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 1663
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser

1 5 10 15
 Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
 20 25 30
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
 35 40 45
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
 50 55 60
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
 65 70 75 80
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
 85 90 95
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
 100 105 110
 Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
 115 120 125
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
 130 135 140
 Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp
 145 150 155 160
 Ile Lys Trp Ala Ser Arg Trp Asp Thr Tyr
 165 170

<210> 1664

<211> 151

<212> PRT

<213> Homo sapiens

<400> 1664

His Ala Ser Gly Ala Arg Arg Arg Leu Gln Ala Pro Pro Val Pro His
 1 5 10 15
 Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu Tyr Asp
 20 25 30
 Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala Leu Gln
 35 40 45
 Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val His Gly
 50 55 60
 Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe Lys Arg
 65 70 75 80
 Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val Pro Trp
 85 90 95
 Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu Gly Lys
 100 105 110

Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser Ala Val
 115 120 125
 His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu Leu Leu
 130 135 140
 Arg Leu Pro Lys Ala Ala Ile
 145 150

<210> 1665
 <211> 166
 <212> PRT
 <213> Homo sapiens

<400> 1665
 Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe
 1 5 10 15
 Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala
 20 25 30
 Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr
 35 40 45
 His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg
 50 55 60
 Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser
 65 70 75 80
 Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser
 85 90 95
 Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu
 100 105 110
 Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser
 115 120 125
 Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu
 130 135 140
 Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile
 145 150 155 160
 Lys Ala Phe Pro Asp Ser
 165

<210> 1666
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 1666
 Gly Leu Phe Leu Gly Gln Met Asn Trp Ile Phe Ser Cys Cys Phe Ser
 1 5 10 15

Asn Asn Val Thr Thr Thr Val Lys Lys Arg
 20 25

<210> 1667
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1667
 Arg Leu Leu Asn Leu Ser Val Pro Met Phe Thr Phe Ile Val Val Lys
 1 5 10 15

Arg Tyr Ala Thr
 20

<210> 1668
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1668
 Met Gly Phe His His Val Ser Gln Ala Ala Leu Val Leu Leu Leu Leu
 1 5 10 15

Leu Leu Leu Leu Leu Leu Phe Asp Thr Glu Ser Arg Ser Ser Leu Ala
 20 25 30

Thr Glu Arg Asp Ser Ile Ser Lys Lys Lys Asn Lys Lys Thr Lys Lys
 35 40 45

Lys Asn Arg Lys Glu Thr Lys Asn Val Val Leu Ile Leu Ile Asn Ser
 50 55 60

Asn Ser Phe Met Trp Leu Ala Ala Ala Leu
 65 70

<210> 1669
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 1669
 His His Val Ala Gln Ala Leu Pro Pro Ala Gly Ala Pro Arg Gly Arg
 1 5 10 15

Pro His Gln Pro His Pro Ala Pro Val Gly Gln Gly Ser Pro Glu Arg
 20 25 30

Gly

<210> 1670
 <211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any amino acid

<400> 1670

Ser Asn Pro Ser His Ile Leu Met Ile Ser Ile Leu Leu Ser His Ala
 1 5 10 15

Ser Arg Gly Ala Gly Ala Asp Pro Lys Arg Ser Cys Cys Pro Gln Arg
 20 25 30

Val Gly Ser Arg Gly Arg Ala Xaa Val Arg Leu Thr Arg Leu Cys Ser
 35 40 45

Gln Pro Ser Pro His
 50

<210> 1671

<211> 163

<212> PRT

<213> Homo sapiens

<400> 1671

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1 5 10 15

Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
 20 25 30

Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
 35 40 45

Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly
 50 55 60

Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn
 65 70 75 80

Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys
 85 90 95

Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val
 100 105 110

Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe Val Leu
 115 120 125

Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn Val Ser
 130 135 140

Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly Lys Ala
 145 150 155 160

Lys Arg His

<210> 1672
 <211> 92
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any amino acid

<400> 1672
 Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1 5 10 15
 Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
 20 25 30
 Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
 35 40 45
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Pro Xaa Asp Thr Leu
 50 55 60
 Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
 65 70 75 80
 Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu
 85 90

<210> 1673
 <211> 236
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any amino acid

<400> 1673
 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15
 Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30
 Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
 35 40 45
 Val Leu Pro Ala Trp Tyr Xaa Leu His Gly Glu Val Ser Ser Ser Gln
 50 55 60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
 65 70 75 80
 Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
 85 90 95
 Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
 100 105 110
 Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
 115 120 125
 Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
 130 135 140
 Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu
 145 150 155 160
 Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser
 165 170 175
 Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro
 180 185 190
 Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser
 195 200 205
 Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys
 210 215 220
 Lys Ala His Asn Glu Val Gly Thr Ala Asn Val Met
 225 230 235

<210> 1674

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any amino acid

<400> 1674

Met Thr Ser Tyr Ile Leu Ile Ser Phe Val Leu Leu Ile Gly Val Gly
 1 5 10 15
 Cys Ile Glu Lys Asp Gln Ser Cys Pro Val Phe Gly Gly Arg Lys Arg
 20 25 30
 Leu His Leu Leu Phe Val Gly Gly Gln Leu Arg Gln Val Xaa Leu Gly
 35 40 45
 Ala Pro Arg Pro Pro Gly Gly Gln Asp Pro Ser His Gln Arg Leu Gly
 50 55 60
 Arg Gly Glu Leu Pro Leu Val Arg Gln His His Arg Asp Leu His His
 65 70 75 80

<210> 1677

<211> 302

<212> PRT

<213> Homo sapiens

<400> 1677

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Met Ala Arg Ala Arg Gly Ser Pro Cys Pro Pro Leu Pro Pro Gly Arg
 1              5              10              15

Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro
      20              25              30

Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly
      35              40              45

Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser
 50              55              60

Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Asp Leu Ala Glu Val
 65              70              75              80

Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Gln Glu Asn
      85              90              95

Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu
      100              105              110

Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly
      115              120              125

Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn
      130              135              140

Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu
      145              150              155              160

Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr
      165              170              175

Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu
      180              185              190

Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn
      195              200              205

Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn
      210              215              220

Leu Thr Ala Leu Val Arg Leu Glu Glu Leu Glu Leu Ser Gly Asn Arg
      225              230              235              240

Leu Asp Leu Ile Arg Pro Gly Ser Phe Gln Gly Leu Thr Ser Leu Arg
      245              250              255

Lys Leu Trp Leu Met His Ala Gln Val Ala Thr Ile Glu Arg Asn Ala
      260              265              270

Phe Asp Asp Leu Lys Ser Leu Glu Glu Leu Asn Leu Ser His Asn Asn
      275              280              285

Leu Met Ser Leu Pro His Asp Leu Phe Thr Pro Leu His Arg
      290              295              300

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<210> 1678
 <211> 224
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any amino acid

<400> 1678
 Met Ala Arg Ala Arg Gly Ser Pro Cys Pro Pro Leu Pro Pro Gly Arg
 1 5 10 15
 Met Ser Trp Pro His Gly Ala Leu Leu Phe Leu Trp Leu Phe Ser Pro
 20 25 30
 Pro Leu Gly Ala Gly Gly Gly Gly Val Ala Val Thr Ser Ala Ala Gly
 35 40 45
 Gly Gly Ser Pro Pro Ala Thr Ser Cys Pro Val Ala Cys Ser Cys Ser
 50 55 60
 Asn Gln Ala Ser Arg Val Ile Cys Thr Arg Arg Xaa Leu Ala Glu Val
 65 70 75 80
 Pro Ala Ser Ile Pro Val Asn Thr Arg Tyr Leu Asn Leu Gln Glu Asn
 85 90 95
 Gly Ile Gln Val Ile Arg Thr Asp Thr Phe Lys His Leu Arg His Leu
 100 105 110
 Glu Ile Leu Gln Leu Ser Lys Asn Leu Val Arg Lys Ile Glu Val Gly
 115 120 125
 Ala Phe Asn Gly Leu Pro Ser Leu Asn Thr Leu Glu Leu Phe Asp Asn
 130 135 140
 Arg Leu Thr Thr Val Pro Thr Gln Ala Phe Glu Tyr Leu Ser Lys Leu
 145 150 155 160
 Arg Glu Leu Trp Leu Arg Asn Asn Pro Ile Glu Ser Ile Pro Ser Tyr
 165 170 175
 Ala Phe Asn Arg Val Pro Ser Leu Arg Arg Leu Asp Leu Gly Glu Leu
 180 185 190
 Lys Arg Leu Glu Tyr Ile Ser Glu Ala Ala Phe Glu Gly Leu Val Asn
 195 200 205
 Leu Arg Tyr Leu Asn Leu Gly Met Cys Asn Leu Lys Asp Ile Pro Asn
 210 215 220

<210> 1679

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1679

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Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1             5             10             15

Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
      20             25             30

Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
      35             40             45

Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
 50             55             60

Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
 65             70             75             80

Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
      85             90             95

Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
      100             105

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<210> 1680

<211> 130

<212> PRT

<213> Homo sapiens

<400> 1680

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Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly
 1             5             10             15

Cys His Cys His Leu Gly His Val Gly Arg His Gln His Phe Val Val
      20             25             30

Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr
      35             40             45

Ser Arg Gln Leu Leu Val Cys Asn Pro Thr Gly Gln Arg Glu Gly Pro
 50             55             60

Val Thr Trp Leu Ser His Cys Pro Ala Pro Gln Met Val Leu Gly Leu
 65             70             75             80

Leu Phe Ser Leu Gly Pro Ala Asn Thr Thr Val Phe Thr Ser Ala His
      85             90             95

Trp Leu Ser Ala Val Val Pro Gly Ser Gln Trp His Val Ser Pro Arg
      100             105             110

Ser Ser Leu Ile Pro Gln His Thr Pro Lys Gly Ser Val Ala Asn Thr
      115             120             125

Leu Asn
      130

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<210> 1681
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any amino acid

<400> 1681
 Lys Ala Pro Ser Ser His Pro Gly Leu Thr Cys Val Ser Leu Ser Arg
 1 5 10 15
 Leu Gln Xaa Ser Leu Ser Leu Cys Phe Pro Ser Gly Pro Cys Trp Ala
 20 25 30
 Gly Leu Leu Ser Ser Leu Ala Leu Ala Gly Gly Ala Pro Gly Ala Leu
 35 40 45
 Pro Pro Trp Gln Pro Gly Gln Asp Ser Lys Met Arg Thr Ala Glu Leu
 50 55 60
 Val Gly Gly Ser His Gly Pro Ala Xaa Gly Pro Gly Glu Ala Glu Pro
 65 70 75 80
 Glu Pro Thr Ala Val Val Leu Trp Thr Val Asp Pro Glu Gly Gly Leu
 85 90 95
 Gly Gln Val Pro Ala Glu Gly Pro Gly Gly Leu Cys Val Pro Leu Gly
 100 105 110
 Pro Gly Ala Leu Val Thr Trp Thr Pro Gly
 115 120

<210> 1682
 <211> 223
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any amino acid

<400> 1682
 Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr
 1 5 10 15
 Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu
 20 25 30

Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His
 35 40 45
 Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu
 50 55 60
 Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu
 65 70 75 80
 Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser
 85 90 95
 Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala
 100 105 110
 Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile
 115 120 125
 Pro Arg Gln Xaa Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu
 130 135 140
 Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu
 145 150 155 160
 Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu
 165 170 175
 Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln
 180 185 190
 Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly
 195 200 205
 Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro
 210 215 220

<210> 1683
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 1683
 Ala Trp Phe Leu Val Lys Pro Glu
 1 5

<210> 1684
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1684
 Ile Val Leu Lys Tyr Ile Met Ala Gly Cys Pro Leu Phe Leu Gly Asn
 1 5 10 15
 Leu Trp Asp Val Thr Asp Arg Asp Ile Asp Arg Tyr Thr Glu Ala Leu
 20 25 30

Leu Gln Gly Trp Leu Gly Ser Arg Pro Arg Ala Pro Leu Leu Tyr Tyr
 35 40 45
 Val Asn Gln Ala Arg Gln Ala Pro Arg Leu Lys Tyr Leu Ile Gly Ala
 50 55 60
 Ala Pro Ile Pro Met Ala Cys Leu Ser Leu Cys Gly Asn Pro Met Glu
 65 70 75 80
 Leu Ser Tyr

<210> 1685
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1685
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45
 Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
 50 55 60
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
 65 70 75 80
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
 85 90 95
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Leu Gln Glu Glu
 100 105 110
 Ser Phe Gln Ser Arg Leu Gly His Tyr Ser Leu Ser Gln Phe Ile Glu
 115 120 125
 Ser Gly Pro Glu Met Ser Arg Gly Ser Ile Gln Ser Arg Thr Gly
 130 135 140

<210> 1686
 <211> 293
 <212> PRT
 <213> Homo sapiens

<400> 1686
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30

Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45
 Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
 50 55 60
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
 65 70 75 80
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
 85 90 95
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys
 100 105 110
 Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu
 115 120 125
 Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly
 130 135 140
 Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn
 145 150 155 160
 Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser
 165 170 175
 His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr
 180 185 190
 Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn
 195 200 205
 Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln
 210 215 220
 Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
 225 230 235 240
 Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln
 245 250 255
 Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro
 260 265 270
 Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr
 275 280 285
 Ile Gln Ala Asn Ser
 290

<210> 1687

<211> 85

<212> PRT

<213> Homo sapiens

<400> 1687

Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile

1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Arg
 35 40 45
 Thr Trp Glu Leu Gly Pro Gly Lys Thr Pro Gly Arg Met Thr Ala Ala
 50 55 60
 Ala Ala Ser Ser Met Asp Pro Thr Ala Ile Cys Thr Pro Ser Arg Gly
 65 70 75 80
 Arg Pro Arg Cys Cys
 85

<210> 1688

<211> 293

<212> PRT

<213> Homo sapiens

<400> 1688

Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45
 Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
 50 55 60
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
 65 70 75 80
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
 85 90 95
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys
 100 105 110
 Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu
 115 120 125
 Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly
 130 135 140
 Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn
 145 150 155 160
 Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser
 165 170 175
 His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr
 180 185 190

Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn
 195 200 205
 Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln
 210 215 220
 Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
 225 230 235 240
 Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln
 245 250 255
 Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro
 260 265 270
 Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr
 275 280 285
 Ile Gln Ala Asn Ser
 290

<210> 1689
 <211> 293
 <212> PRT
 <213> Homo sapiens

<400> 1689
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45
 Asp Leu Gly Ala Gly Ala Gly Glu Asp Ala Arg Ser Asp Asp Ser Ser
 50 55 60
 Ser Arg Ile Ile Asn Gly Ser Asp Cys Asp Met His Thr Gln Pro Trp
 65 70 75 80
 Gln Ala Ala Leu Leu Leu Arg Pro Asn Gln Leu Tyr Cys Gly Ala Val
 85 90 95
 Leu Val His Pro Gln Trp Leu Leu Thr Ala Ala His Cys Arg Lys Lys
 100 105 110
 Val Phe Arg Val Arg Leu Gly His Tyr Ser Leu Ser Pro Val Tyr Glu
 115 120 125
 Ser Gly Gln Gln Met Phe Gln Gly Val Lys Ser Ile Pro His Pro Gly
 130 135 140
 Tyr Ser His Pro Gly His Ser Asn Asp Leu Met Leu Ile Lys Leu Asn
 145 150 155 160
 Arg Arg Ile Arg Pro Thr Lys Asp Val Arg Pro Ile Asn Val Ser Ser
 165 170 175

His Cys Pro Ser Ala Gly Thr Lys Cys Leu Val Ser Gly Trp Gly Thr
 180 185 190
 Thr Lys Ser Pro Gln Val His Phe Pro Lys Val Leu Gln Cys Leu Asn
 195 200 205
 Ile Ser Val Leu Ser Gln Lys Arg Cys Glu Asp Ala Tyr Pro Arg Gln
 210 215 220
 Ile Asp Asp Thr Met Phe Cys Ala Gly Asp Lys Ala Gly Arg Asp Ser
 225 230 235 240
 Cys Gln Gly Asp Ser Gly Gly Pro Val Val Cys Asn Gly Ser Leu Gln
 245 250 255
 Gly Leu Val Ser Trp Gly Asp Tyr Pro Cys Ala Arg Pro Asn Arg Pro
 260 265 270
 Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Lys Trp Ile Gln Glu Thr
 275 280 285
 Ile Gln Ala Asn Ser
 290

<210> 1690
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1690
 Met Ala Thr Ala Arg Pro Pro Trp Met Trp Val Leu Cys Ala Leu Ile
 1 5 10 15
 Thr Ala Leu Leu Leu Gly Val Thr Glu His Val Leu Ala Asn Asn Asp
 20 25 30
 Val Ser Cys Asp His Pro Ser Asn Thr Val Pro Ser Gly Ser Asn Gln
 35 40 45
 Asp Leu Gly Ala Gly Ala Gly Gly Arg Arg Pro Val Gly
 50 55 60

<210> 1691
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 1691
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln
 1 5 10 15
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg
 20 25 30
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
 35 40 45

Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
 50 55 60
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
 65 70 75 80
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
 85 90 95
 Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
 100 105 110
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
 115 120 125
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
 130 135 140
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
 145 150 155 160
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
 165 170 175
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
 180 185 190
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
 195 200 205
 Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
 210 215 220
 Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
 225 230 235 240
 Gly Tyr Gln

<210> 1692

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (150)

<223> Xaa equals any amino acid

<400> 1692

Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val
 1 5 10 15
 Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln
 20 25 30
 Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg
 35 40 45

Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile
 50 55 60
 Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu
 65 70 75 80
 Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe
 85 90 95
 Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met
 100 105 110
 Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln
 115 120 125
 Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val
 130 135 140
 Leu His Val Ser Trp Xaa Asp Ala Arg Ala
 145 150

<210> 1693
 <211> 120
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any amino acid

<400> 1693
 Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
 20 25 30
 Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
 35 40 45
 Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
 50 55 60
 His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
 65 70 75 80
 Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
 85 90 95
 Arg Leu Gln Ala Gln Ala Xaa Arg Arg Gly Tyr Leu Pro Arg Ser Cys
 100 105 110
 Met Ser Ser Met Ala Phe Phe Leu
 115 120

<210> 1694
 <211> 269
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (257)
 <223> Xaa equals any amino acid

<400> 1694
 Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
 20 25 30
 Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
 35 40 45
 Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
 50 55 60
 His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
 65 70 75 80
 Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
 85 90 95
 Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys Ile Leu
 100 105 110
 His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met Ser Gly
 115 120 125
 Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr Ile Glu
 130 135 140
 Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu Glu Arg
 145 150 155 160
 Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp Gly
 165 170 175
 Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln Ser Asp
 180 185 190
 His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu Asn Val
 195 200 205
 Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys Cys Asp
 210 215 220
 Ser His Gly Pro Thr Trp Gln Gly Trp Ser Ala Xaa Gly Met Pro Ala
 225 230 235 240

Xaa Pro Leu Leu Gly Gly Pro Pro Gln Lys Lys Gly Gly
260 265

<400> 1695
Gly Trp Cys Ser Arg Arg Asp Ser Cys Trp Pro Ser Pro Pro Thr Met
1 5 10 15

<400> 1696
 Thr Trp Trp Pro Pro Cys Pro Pro Ala Pro Met Gly Gln Val Gly Ser
 1 5 10 15

Pro Gln Pro Ser Pro Ala Ala Pro Gln Met Arg Ser Cys
35 40 45

<400> 1697
Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro
1 5 10 15

Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala
35 40 45

<210> 1698
<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any amino acid

<400> 1698

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1 5 10 15

Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro
 20 25 30

Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
 35 40 45

Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser
 50 55 60

Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile
 65 70 75 80

Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Xaa Arg Arg Asp Ile
 85 90 95

Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met
 100 105

<210> 1699

<211> 37

<212> PRT

<213> Homo sapiens

<400> 1699

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1 5 10 15

Ala Val Leu Thr Trp Ala Gln Ser Asn Thr Met Asp Ala Asn Leu Ser
 20 25 30

Phe Val Cys Ser Cys
 35

<210> 1700

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1700

Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
 1 5 10 15

Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
 20 25 30

Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
 35 40 45
 Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
 50 55 60
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
 65 70 75 80
 Tyr His Ser Gly Leu Trp Leu Gln Thr Leu Gln Lys Ile Thr Pro Phe
 85 90 95
 Leu Leu Leu Arg Cys Asn Gln Pro
 100

<210> 1701
 <211> 94
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any amino acid

<400> 1701
 Ala Xaa Pro Ser Ser Gly Ala Pro Phe Leu Leu Leu Leu Leu Phe Lys
 1 5 10 15
 Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp Ile Ser Xaa Asp Trp
 20 25 30
 Glu Lys Asp Phe Xaa Leu Asp Met Thr Glu Glu Glu Val Gln Met Ala
 35 40 45
 Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser Gly Pro Gly Gly Ser
 50 55 60
 Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu Ser Ser Pro Gln Pro
 65 70 75 80
 Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser Cys Leu Arg
 85 90

<210> 1702
 <211> 47
 <212> PRT

<213> Homo sapiens

<400> 1702

Met Leu Ser Ile Ile Pro Asn Asp Arg Leu Phe Ile Asn Leu Ile Phe
1 5 10 15
Leu Ser Asn Phe Leu Pro Ser Val Leu Trp Glu Pro Ala Gly Gln Met
20 25 30
Trp Tyr Thr His Val Arg Tyr Pro Ser Gly Arg Leu Leu Ser Leu
35 40 45

<210> 1703

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1703

Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile
1 5 10 15
Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val
20 25 30
Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe
35 40 45
Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu
50 55 60
Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu
65 70 75 80

<210> 1704

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1704

Ile Leu Lys Ser Glu Pro Lys Leu Val Ser Phe Ile Asn Ile Leu Gly
1 5 10 15
Lys Glu Glu Arg Lys Lys Glu Gly Gly Arg Glu Arg Lys Lys Glu Arg
20 25 30
Lys Lys Glu Arg Lys Lys Glu Arg Lys Lys Lys Lys Lys Asn Ser
35 40 45

<210> 1705

<211> 142

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any amino acid

<400> 1705
 Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
 1 5 10 15
 Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
 20 25 30
 Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
 35 40 45
 Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
 50 55 60
 His Asn Phe Gln Xaa Arg Pro Pro Ser Gly Arg Xaa Leu Ser Pro Gln
 65 70 75 80
 Ser Ala Tyr Pro Arg Leu Pro Gly Pro Xaa Phe Pro His Leu His Asn
 85 90 95
 Gly Gly Asp His Pro Cys Pro Ala Gly Cys Arg Xaa Gly Cys Glu Ser
 100 105 110
 Ser Ala Trp Met Gln Pro Gly Gly Ser His Arg Ala Ala Phe Thr Gly
 115 120 125
 Leu Ala Leu Pro Trp Ala Gly Gly Arg Pro His Pro Lys Arg
 130 135 140

<210> 1706
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1706
 Met Ala Lys Arg Thr Phe Ser Asn Leu Glu Thr Phe Leu Ile Phe Leu
 1 5 10 15
 Leu Val Met Met Ser Ala Ile Thr Val Ala Leu Leu Ser Leu Leu Phe

```

                20                25                30
Ile Thr Ser Gly Thr Ile Glu Asn His Lys Asp Leu Gly Gly His Phe
      35                40                45
Phe Ser Thr Thr Gln Ser Pro Pro Ala Thr Gln Gly Ser Thr Ala Ala
      50                55                60
Gln Arg Ser Thr Ala Thr Gln His Ser Thr Ala Thr Gln Ser Ser Asn
      65                70                75                80
Ser Gln Leu Lys Leu Leu Gln Cys Leu
      85

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<210> 1707

<211> 486

<212> PRT

<213> Homo sapiens

<400> 1707

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Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
  1          5          10          15
Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
      20          25          30
Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
      35          40          45
Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
      50          55          60
Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
      65          70          75          80
Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
      85          90          95
Arg Gln Val Tyr Gln Lys Gly Leu Gln Asp Val Asn Leu Arg Asn Phe
      100          105          110
Ser Tyr Gly Gln Thr Ser Leu Asp Arg Leu Arg Asp Gly Leu Val Gly
      115          120          125
Ala Gln Phe Trp Ser Ala Tyr Val Pro Cys Gln Thr Gln Asp Arg Asp
      130          135          140
Ala Leu Arg Leu Thr Leu Glu Gln Ile Asp Leu Ile Arg Arg Met Cys
      145          150          155          160
Ala Ser Tyr Ser Glu Leu Glu Leu Val Thr Ser Ala Lys Ala Leu Asn
      165          170          175
Asp Thr Gln Lys Leu Ala Cys Leu Ile Gly Val Glu Gly Gly His Ser
      180          185          190
Leu Asp Asn Ser Leu Ser Ile Leu Arg Thr Phe Tyr Met Leu Gly Val
      195          200          205

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Arg Tyr Leu Thr Leu Thr His Thr Cys Asn Thr Pro Trp Ala Glu Ser
 210 215 220
 Ser Ala Lys Gly Val His Ser Phe Tyr Asn Asn Ile Ser Gly Leu Thr
 225 230 235 240
 Asp Phe Gly Glu Lys Val Val Ala Glu Met Asn Arg Leu Gly Met Met
 245 250 255
 Val Asp Leu Ser His Val Ser Asp Ala Val Ala Arg Arg Ala Leu Glu
 260 265 270
 Val Ser Gln Ala Pro Val Ile Phe Ser His Ser Ala Ala Arg Gly Val
 275 280 285
 Cys Asn Ser Ala Arg Asn Val Pro Asp Asp Ile Leu Gln Leu Leu Lys
 290 295 300
 Lys Asn Gly Gly Val Val Met Val Ser Leu Ser Met Gly Val Ile Gln
 305 310 315 320
 Cys Asn Pro Ser Ala Asn Val Ser Thr Val Ala Asp His Phe Asp His
 325 330 335
 Ile Lys Ala Val Ile Gly Ser Lys Phe Ile Gly Ile Gly Gly Asp Tyr
 340 345 350
 Asp Gly Ala Gly Lys Phe Pro Gln Gly Leu Glu Asp Val Ser Thr Tyr
 355 360 365
 Pro Val Leu Ile Glu Glu Leu Leu Ser Arg Gly Trp Ser Glu Glu Glu
 370 375 380
 Leu Gln Gly Val Leu Arg Gly Asn Leu Leu Arg Val Phe Arg Gln Val
 385 390 395 400
 Glu Lys Val Gln Glu Glu Asn Lys Trp Gln Ser Pro Leu Glu Asp Lys
 405 410 415
 Phe Pro Asp Glu Gln Leu Ser Ser Ser Cys His Ser Asp Leu Ser Arg
 420 425 430
 Leu Arg Gln Arg Gln Ser Leu Thr Ser Gly Gln Glu Leu Thr Glu Ile
 435 440 445
 Pro Ile His Trp Thr Ala Lys Leu Pro Ala Lys Trp Ser Val Ser Glu
 450 455 460
 Ser Ser Pro His Met Ala Pro Val Leu Ala Val Val Ala Thr Phe Pro
 465 470 475 480
 Val Leu Ile Leu Trp Leu
 485

<210> 1708

<211> 92

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any amino acid

<400> 1708
 Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1 5 10 15
 Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
 20 25 30
 Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
 35 40 45
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Pro Xaa Asp Thr Leu
 50 55 60
 Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
 65 70 75 80
 Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu
 85 90

<210> 1709
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 1709
 Met Arg Arg Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
 65 70 75 80
 Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
 85 90 95
 Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
 100 105 110
 Tyr His Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
 115 120 125

Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln
 130 135 140

Asp His Ile Tyr His Pro Gln
 145 150

<210> 1710
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 1710
 Asp Leu His Ile Lys Leu Leu Glu His Tyr Cys Leu Thr Ser Cys Lys
 1 5 10 15

Lys Val Leu Gln Leu
 20

<210> 1711
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any amino acid

<400> 1711
 Pro Gln Ser Pro Gln Arg Gly Cys Tyr Ser Met Leu Xaa Val Leu Ser
 1 5 10 15

Val Ser His Pro Gln Pro Asn Lys Trp Arg Cys Val Val Pro Arg Gly
 20 25 30

Pro Phe Ser His Cys Leu Ala Ser Arg Arg Gly Val Leu Gln Gly Tyr
 35 40 45

Ser Phe Val Cys Thr Cys Arg Leu Val Gly Pro Glu Phe Phe Ser His
 50 55 60

Val Gln Glu
 65

<210> 1712
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any amino acid

<400> 1712

Val Trp Arg Arg Cys Val Ser Trp Arg Ser Ile Arg Ala Gln Val Thr
 1 5 10 15
 Phe Pro Glu Asp Phe Leu Ser Leu Ser Ser Ser Val Gln Phe Gln Val
 20 25 30
 Ile His Val Leu Leu Asp Pro Gly Xaa Thr Gly Ile Ser Thr Asp Leu
 35 40 45
 Leu Ala Ser Phe Gly Leu Glu Tyr His Ser Trp Leu Gly Ala Glu Ala
 50 55 60
 Ala Gly Leu Ile Val Ile Tyr His Lys Val Ala Arg Lys Leu Pro Arg
 65 70 75 80
 Gly Val Arg Lys Ala Ala Gly Gly Gly Arg Val
 85 90

<210> 1713
 <211> 190
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any amino acid

<400> 1713
 Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
 1 5 10 15
 Arg Pro Ala Ser Ala Ala Pro Met Xaa Gly Pro Glu Leu Ala Gln His
 20 25 30
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
 35 40 45
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
 50 55 60
 Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
 65 70 75 80
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
 85 90 95
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
 100 105 110
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
 115 120 125
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
 130 135 140
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Glu
 145 150 155 160

| | | |
|-------------------------|---------------------|-----------------------------|
| 50 | 55 | 60 |
| Leu Val Thr Leu Leu Ala | Leu Cys Lys Thr | Glu Lys Phe Leu Ile His |
| 65 | 70 | 75 80 |
| Ser Gln Gln Pro Cys | Pro Gln Gly Ala | Pro Asp Cys Gln Lys Val Lys |
| 85 | 90 | 95 |
| Val Met Tyr Arg Met Ala | His Lys Pro Val Tyr | Gln Val Lys Gln Lys |
| 100 | 105 | 110 |
| Val Leu Thr Ser Leu Ala | Trp Arg Cys Cys | Pro Gly Tyr Thr Gly Pro |
| 115 | 120 | 125 |
| Asn Cys Glu His His Asp | Ser Met Ala Ile | Pro Glu Pro Ala Asp Pro |
| 130 | 135 | 140 |
| Gly Asp Ser His Gln Glu | Pro Gln Asp Gly | Pro Val Ser Phe Lys Pro |
| 145 | 150 | 155 160 |
| Gly His Leu Ala Ala Val | Ile Asn Glu Val | Glu Val Gln Gln Glu Gln |
| 165 | 170 | 175 |
| Gln Glu His Leu Leu Gly | Asp Leu Gln Asn Asp | Val His Arg Val Ala |
| 180 | 185 | 190 |
| Asp Ser Leu Pro Gly Leu | Trp Lys Ala Leu | Pro Gly Asn Leu Thr Ala |
| 195 | 200 | 205 |
| Ala Val Met Glu Ala Asn | Gln Thr Gly His | Glu Phe Pro Asp Arg Ser |
| 210 | 215 | 220 |
| Leu Glu Gln Val Leu Leu | Pro His Val Asp | Thr Phe Leu Gln Val His |
| 225 | 230 | 235 240 |
| Phe Ser Pro Ile Trp Arg | Ser Phe Asn Gln | Ser Leu His Ser Leu Thr |
| 245 | 250 | 255 |
| Gln Ala Ile Arg Asn Leu | Ser Leu Asp Val | Glu Ala Asn Arg Gln Ala |
| 260 | 265 | 270 |
| Ile Ser Arg Val Gln Asp | Ser Ala Val Ala | Arg Ala Asp Phe Gln Glu |
| 275 | 280 | 285 |
| Leu Gly Ala Lys Phe Glu | Ala Lys Val Gln | Glu Asn Thr Gln Arg Val |
| 290 | 295 | 300 |
| Gly Gln Leu Arg Gln Asp | Val Glu Glu Arg | Leu His Ala Gln His Phe |
| 305 | 310 | 315 320 |
| Thr Leu His Arg Ser Ile | Ser Glu Leu Gln | Ala Asp Val Asp Thr Lys |
| 325 | 330 | 335 |
| Leu Lys Arg Leu His Lys | Ala Xaa Glu Ala | Pro Gly Thr Asn Gly Ser |
| 340 | 345 | 350 |
| Leu Val Leu Ala Thr Pro | Gly Ala Gly Ala | Arg Pro Glu Pro Asp Ser |
| 355 | 360 | 365 |
| Leu Gln Ala Arg Leu Gly | Gln Leu Gln Arg | Asn Leu Ser Glu Leu His |
| 370 | 375 | 380 |

Met Thr Thr Ala Arg Arg Glu Glu Glu Leu Gln Tyr Thr Leu Glu Asp
 385 390 395 400

Met Arg Ala Thr Leu Thr Arg His Val Asp Glu Ile Lys Glu Leu Xaa
 405 410 415

Ser Glu Ser Asp Glu Thr Phe Asp Gln Ile Ser Lys Xaa Xaa Arg Gln
 420 425 430

Val Glu Glu Leu Gln Val Asn His Thr Ala Leu Arg Glu Leu Arg Val
 435 440 445

Ile Leu Met Glu Lys Ser Leu Ile Met Glu Glu Asn Lys Glu Glu Val
 450 455 460

Glu Arg Gln Leu Leu Glu Leu Asn Leu Thr Leu Gln His Leu Gln Gly
 465 470 475 480

Gly Met Pro Thr Ser Ser Ser Thr
 485

<210> 1716
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1716
 Met Ile Arg Ile Gln Phe Leu His Leu Phe Leu Trp Val Gly Phe Ile
 1 5 10 15

Phe Arg Gln Pro Pro Ser Ser Tyr Pro Gln Asp Gly Arg Asp Ser Pro
 20 25 30

Trp Ser Phe Pro Cys Arg Asp Arg Ser Pro Gly Asn Asn Thr Ser Ile
 35 40 45

Pro Ser His Glu Thr Val Leu Asn Phe Ile Leu Thr
 50 55 60

<210> 1717
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1717
 Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu
 1 5 10 15

Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu
 20 25 30

Leu Cys Gly Trp Lys Leu Asn Val Ile Met Met Cys Val Arg Cys Leu
 35 40 45

His Ser Ala Trp Arg Tyr
 50

<210> 1718
 <211> 215
 <212> PRT
 <213> Homo sapiens

<400> 1718
 Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys
 1 5 10 15
 Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly
 20 25 30
 Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile
 35 40 45
 Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser
 50 55 60
 Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His
 65 70 75 80
 Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala
 85 90 95
 Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn
 100 105 110
 Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile
 115 120 125
 Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile
 130 135 140
 Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys
 145 150 155 160
 Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu
 165 170 175
 Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser
 180 185 190
 Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu
 195 200 205
 Thr Lys Val Arg Lys Lys Asn
 210 215

<210> 1719
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1719
 Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1 5 10 15

His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
 20 25 30
 Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
 35 40 45
 Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Thr Lys Arg Val
 50 55 60
 Gln Gln Met Leu Leu Phe His Ser Tyr Gly Ile Ala Gln
 65 70 75

<210> 1720
 <211> 306
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (180)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (182)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (188)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (208)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (211)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (218)
 <223> Xaa equals any amino acid

 <220>

<221> SITE

<222> (219)

<223> Xaa equals any amino acid

<400> 1720

Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30

Gly Tyr Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60

Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95

Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110

Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125

Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140

Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly
 145 150 155 160

Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His
 165 170 175

Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg
 180 185 190

Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa
 195 200 205

Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser
 210 215 220

Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro
 225 230 235 240

Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys
 245 250 255

Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln
 260 265 270

Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro
 275 280 285

Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys
 290 295 300

Glu Lys
305

<210> 1721
<211> 40
<212> PRT
<213> Homo sapiens

<400> 1721
Met Ser Gly Ser Ser Leu Pro Ser Ala Leu Ala Leu Ser Leu Leu Leu
1 5 10 15
Val Ser Gly Ser Leu Leu Pro Gly Pro Gly Ala Ala Gln Asn Val Arg
20 25 30
Val Gln Ser Gly Gln Asp Gln Lys
35 40

<210> 1722
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (77)
<223> Xaa equals any amino acid

<400> 1722
Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
1 5 10 15
Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30
Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
35 40 45
Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
50 55 60
Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Xaa His Gln Lys
65 70 75 80
Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
85 90 95
Leu Ile Ala Ser Thr Ala Val
100

<210> 1723
<211> 957
<212> PRT
<213> Homo sapiens

<400> 1723

Met Ala Leu Leu His Trp Gly Ala Leu Trp Arg Gln Leu Ala Ser Pro
 1 5 10 15
 Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg Trp Lys Leu
 20 25 30
 Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg Leu Lys Leu Val Pro Asn
 35 40 45
 His His Phe Asp Pro His Leu Glu Ala Ser Ala Leu Arg Asp Asn Leu
 50 55 60
 Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala
 65 70 75 80
 Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Leu Gln Glu
 85 90 95
 Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro Met Glu
 100 105 110
 Ala Ala Glu Leu Asp Glu Gln Arg Glu Lys Leu Val Leu Ser Ala Glu
 115 120 125
 Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val
 130 135 140
 Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu
 145 150 155 160
 Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu
 165 170 175
 Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu
 180 185 190
 Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys
 195 200 205
 Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln
 210 215 220
 Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser
 225 230 235 240
 Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg
 245 250 255
 Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val
 260 265 270
 Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile
 275 280 285
 Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp
 290 295 300
 Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala
 305 310 315 320

Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His
 325 330 335
 Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly
 340 345 350
 Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly
 355 360 365
 Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val
 370 375 380
 Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser
 385 390 395 400
 Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys
 405 410 415
 Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln
 420 425 430
 Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly
 435 440 445
 Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln
 450 455 460
 Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His
 465 470 475 480
 Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala
 485 490 495
 Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val
 500 505 510
 Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly
 515 520 525
 Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro
 530 535 540
 His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg
 545 550 555 560
 Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys
 565 570 575
 Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala
 580 585 590
 Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro
 595 600 605
 Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser
 610 615 620
 Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys
 625 630 635 640

Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro
 645 650 655
 Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro
 660 665 670
 Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg
 675 680 685
 Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His
 690 695 700
 Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu
 705 710 715 720
 Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His
 725 730 735
 Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu
 740 745 750
 Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu
 755 760 765
 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr
 770 775 780
 Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr
 785 790 795 800
 Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile
 805 810 815
 Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr
 820 825 830
 Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro
 835 840 845
 Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu
 850 855 860
 Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu
 865 870 875 880
 Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val
 885 890 895
 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly
 900 905 910
 Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser
 915 920 925
 Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val
 930 935 940
 Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg
 945 950 955

<210> 1724
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 1724
 Met Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe
 1 5 10 15
 Leu Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile
 20 25 30
 Ser Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe
 35 40 45
 Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp
 50 55 60
 Val Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn
 65 70 75 80
 Tyr Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg
 85 90 95
 Thr Arg Val Leu Phe Ile Tyr
 100

<210> 1725
 <211> 198
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any amino acid

<400> 1725
 Met Lys Lys Ser Leu Glu Asn Leu Asn Arg Leu Gln Val Met Leu Leu
 1 5 10 15
 His Leu Thr Ala Ala Phe Leu Gln Arg Ala Gln His Xaa Phe Asp Tyr
 20 25 30
 Lys Asp Glu Ser Gly Phe Pro Lys Pro Pro Ser Tyr Asn Val Ala Thr
 35 40 45
 Thr Leu Pro Ser Tyr Asp Glu Ala Glu Arg Thr Lys Ala Glu Ala Thr
 50 55 60
 Ile Pro Leu Val Pro Gly Arg Asp Glu Asp Phe Val Gly Arg Asp Asp
 65 70 75 80
 Phe Asp Asp Ala Asp Gln Leu Arg Ile Gly Asn Asp Gly Ile Phe Met
 85 90 95
 Leu Thr Phe Phe Met Ala Phe Leu Phe Asn Trp Ile Gly Phe Phe Leu
 100 105 110

Ser Phe Cys Leu Thr Thr Ser Ala Ala Gly Arg Tyr Gly Ala Ile Ser
 115 120 125
 Gly Phe Gly Leu Ser Leu Ile Lys Trp Ile Leu Ile Val Arg Phe Ser
 130 135 140
 Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp Leu Trp Trp Val
 145 150 155 160
 Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly Phe Ile Asn Tyr
 165 170 175
 Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn Leu Pro Arg Thr
 180 185 190
 Arg Val Leu Phe Ile Tyr
 195

<210> 1726
 <211> 106
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any amino acid

<400> 1726
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Val Glu Pro Ala Cys Ala
 1 5 10 15
 Ala Gly Thr Ser Ser Cys Arg Met Lys Lys Ser Leu Glu Asn Leu Asn
 20 25 30
 Arg Leu Gln Val Met Leu Leu His Leu Thr Ala Ala Phe Leu Gln Arg
 35 40 45
 Ala Gln Phe Ser Thr Tyr Phe Pro Gly Tyr Phe Asp Gly Gln Tyr Trp
 50 55 60
 Leu Trp Trp Val Phe Leu Val Leu Gly Phe Leu Leu Phe Leu Arg Gly
 65 70 75 80
 Phe Ile Asn Tyr Ala Lys Val Arg Lys Met Pro Glu Thr Phe Ser Asn
 85 90 95
 Leu Pro Arg Thr Arg Val Leu Phe Ile Tyr
 100 105

<210> 1727
 <211> 68
 <212> PRT
 <213> Homo sapiens
 <220>

<221> SITE
 <222> (3)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any amino acid

<400> 1727
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Arg Ala Ala Cys Xaa
 1 5 10 15
 Ala Gly Thr Ser Ser Cys Arg Met Lys Lys Ser Leu Glu Asn Leu Asn
 20 25 30
 Arg Leu Gln Val Met Leu Leu His Leu Thr Ala Ala Phe Leu Gln Arg
 35 40 45
 Ala His Xaa Ile Leu Thr Thr Arg Met Ser Leu Gly Phe Gln Ser Pro
 50 55 60
 His Leu Thr Met
 65

<210> 1728
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any amino acid

<400> 1728
 Met Ala Xaa Ala Leu Ala Ala Leu Ala Ala Val Glu Xaa Pro Ala Xaa
 1 5 10 15
 Pro Val Pro Ala Val Ala Glu
 20

<210> 1729
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1729
 Met Arg Lys Val Thr Ile Ser Lys Lys His Ala Leu Leu Leu Cys Phe
 1 5 10 15
 Gln Leu Phe Arg Cys Leu Leu Ser Met Tyr Ile Trp Ile Thr Phe Val
 20 25 30
 Leu Asp Gly Ser Cys Gly Ile His Cys Ser Leu Lys Pro Val Ser Phe
 35 40 45
 Pro Cys Thr Tyr His Ser Val His Ser Ser Thr Ser
 50 55 60

<210> 1730
 <211> 188
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (85)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (104)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (164)
 <223> Xaa equals any amino acid

<400> 1730
 Met Arg Pro Ala Phe Ala Leu Cys Leu Leu Trp Gln Ala Leu Trp Pro
 1 5 10 15
 Gly Pro Gly Gly Gly Glu His Pro Thr Ala Asp Arg Ala Gly Cys Ser
 20 25 30
 Ala Ser Gly Ala Cys Tyr Ser Leu His His Ala Thr Met Lys Arg Gln
 35 40 45
 Ala Ala Glu Glu Ala Cys Ile Leu Arg Gly Gly Ala Leu Ser Thr Val
 50 55 60
 Arg Ala Gly Ala Glu Leu Arg Ala Val Leu Ala Leu Arg Ala Gly
 65 70 75 80
 Pro Gly Pro Gly Xaa Gly Ser Lys Asp Leu Leu Phe Trp Val Ala Leu
 85 90 95
 Glu Arg Arg Arg Ser His Cys Xaa Leu Glu Asn Glu Pro Leu Arg Gly
 100 105 110

Phe Ser Trp Leu Ser Ser Asp Pro Gly Gly Leu Glu Ser Asp Thr Leu
 115 120 125
 Gln Trp Val Glu Glu Pro Gln Arg Ser Cys Thr Ala Arg Arg Trp Val
 130 135 140
 Leu Pro Gly His Arg Trp Gly Arg Ala Arg Ser Trp Lys Glu Met Arg
 145 150 155 160
 Cys His Leu Xaa Ala Asn Ala Thr Cys Ala Ser Thr Ser Leu Arg Ser
 165 170 175
 Cys Val Leu Arg Arg Ala Pro Gly Pro Pro Leu Thr
 180 185

<210> 1731
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1731
 Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu
 1 5 10 15
 Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro
 20 25 30
 Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Ile His
 35 40 45
 Ser Ser Arg Ser Ile Leu Ser Phe Ile
 50 55

<210> 1732
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1732
 Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg
 1 5 10 15
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys
 20 25 30
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly
 35 40

<210> 1733
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 1733

Met Leu Cys Val Cys Val Leu Trp Met Phe Thr Val Pro Gly Ser Arg
 1 5 10 15
 Lys Asp Val Gly Glu Ala Ala Pro Ala Ser Gly Thr Gly Gln Glu Cys
 20 25 30
 Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly
 35 40

<210> 1734
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1734
 Met Arg His Val Ala Ile Val Thr Met Ile Val Val Leu Ser Pro Pro
 1 5 10 15
 Val Leu Ala Ser Ser Leu Lys Pro Pro Leu Phe Ile Asp Thr Tyr Phe
 20 25 30
 Met Phe Gly Lys Arg Cys Ser Arg Trp Asp Thr Pro Ala Cys Ser Lys
 35 40 45

<210> 1735
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 1735
 Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His
 1 5 10 15
 Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu Pro Thr
 20 25 30
 Gln Ala Cys Leu
 35

<210> 1736
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 1736
 Leu Leu Leu Cys Lys Phe Lys Lys Val Asn Tyr Phe Leu Lys Val Leu
 1 5 10 15
 Ile Ser Asn Phe Ser Ile Trp Ala Tyr Asp His His
 20 25

<210> 1737
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 1737
 Cys Lys Trp Val Gln Asn Gly Gly His Pro Asn Val Glu Ser Ser Lys
 1 5 10 15
 Tyr His Cys His Glu Pro Lys Ala Ser Leu Tyr Thr Leu Glu Glu Ser
 20 25 30
 Thr Leu

<210> 1738
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1738
 Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr
 1 5 10 15
 Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr
 20 25 30
 Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val
 35 40 45
 Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser
 50 55 60
 Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala
 65 70 75 80
 Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val
 85 90 95
 Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu
 100 105 110
 Phe Phe His His Phe Tyr His His Gln
 115 120

<210> 1739
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any amino acid
 <400> 1739

Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
 1 5 10 15
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
 20 25 30
 Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Cys Cys Ser His Cys
 35 40 45
 Ser

<210> 1740
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1740
 Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn
 1 5 10 15
 Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly
 20 25 30
 Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser
 35 40 45
 Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr
 50 55 60
 His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg
 65 70 75

<210> 1741
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1741
 Met Leu Phe Cys Ile Leu Leu Tyr Thr Leu Gly Ser Ala Arg Cys His
 1 5 10 15
 His Leu Ser Phe Phe Leu Trp Gly Trp Ser Asn Pro Pro Glu Lys Thr
 20 25 30
 Pro Leu Ala Ser Trp Arg Gly Val Lys Ala Arg Leu Pro Gly Pro Gly
 35 40 45
 Cys Gln Leu Leu Gly Ala Ala Gly Ala Glu Ala Gly Ser Cys Gln Ala
 50 55 60
 Phe Ser Gln Gln Asp Ala Leu Ser Thr His Leu Gly Phe Arg Ile Pro
 65 70 75 80
 Leu Pro His Leu Gln Met Gly Gln Met Ser Pro Lys Pro Ala Ala Pro
 85 90 95

Phe Cys Phe Thr Leu Ser Thr Glu
100

<210> 1742
<211> 148
<212> PRT
<213> Homo sapiens

<400> 1742
Met Val Trp Phe Ser Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile
1 5 10 15
Leu Gly Ala Arg Gly Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg
20 25 30
His Cys Gly Leu Val Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala
35 40 45
Asp Val Leu Ala Val His Ser Gly Gln Val Ser His Ser Pro Glu Pro
50 55 60
Gln Arg Leu Tyr Gln Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro
65 70 75 80
His Gly Val Val Ser Ala Val Asn Glu Ile Met Tyr Met Lys His Leu
85 90 95
Val Tyr Leu Ala Pro Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr
100 105 110
Asn Lys Met Glu Leu Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg
115 120 125
Gln Ile Leu Gly Val Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro
130 135 140
Ser Leu Phe Gly
145

<210> 1743
<211> 88
<212> PRT
<213> Homo sapiens

<400> 1743
Met Lys Ile Ala Val Leu Phe Cys Phe Phe Leu Leu Ile Ile Phe Gln
1 5 10 15
Thr Asp Phe Gly Lys Asn Glu Glu Ile Pro Arg Lys Gln Arg Arg Lys
20 25 30
Ile Tyr His Arg Arg Leu Arg Lys Ser Ser Thr Ser His Lys His Arg
35 40 45
Ser Asn Arg Gln Leu Gly Ile Pro Gln Thr Thr Val Phe Thr Pro Val
50 55 60

Ala Arg Leu Pro Ile Val Asn Phe Asp Tyr Ser Met Glu Glu Lys Phe
 65 70 75 80

Glu Ser Phe Gln Val Phe Leu Glu
 85

<210> 1744

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1744

Ile Phe Ala Leu Ser Leu Ser Phe Tyr Thr Cys Ile His Ile His Thr
 1 5 10 15

His Arg His Thr
 20

<210> 1745

<211> 484

<212> PRT

<213> Homo sapiens

<400> 1745

Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu
 1 5 10 15

Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
 20 25 30

Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg
 35 40 45

Arg Pro Gly Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
 50 55 60

Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
 65 70 75 80

Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
 85 90 95

Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
 100 105 110

Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
 115 120 125

Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu
 130 135 140

Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
 145 150 155 160

Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
 165 170 175

Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val
 180 185 190
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
 195 200 205
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp
 210 215 220
 Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val
 225 230 235 240
 Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe
 245 250 255
 Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg
 260 265 270
 Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu
 275 280 285
 Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala
 290 295 300
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val
 305 310 315 320
 Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr
 325 330 335
 Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe
 340 345 350
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser
 355 360 365
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys
 370 375 380
 Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln
 385 390 395 400
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe
 405 410 415
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu
 420 425 430
 Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala
 435 440 445
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn
 450 455 460
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly
 465 470 475 480
 Gln Ile His Arg

<210> 1746
 <211> 266
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (183)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (222)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (224)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (255)
 <223> Xaa equals any amino acid

<400> 1746
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Trp Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
 20 25 30
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Xaa Pro Xaa Arg
 35 40 45
 Arg Pro Xaa Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
 50 55 60
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
 65 70 75 80

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<400> 1748
Lys Met His Phe Asn Lys Asn Lys Ser Ile Leu Lys Ser Phe Ser Phe
1 5 10 15
Val Arg Gly Asn Met Asn Glu Ile His Ser Tyr Leu Lys Thr Glu Tyr
20 25 30

Phe Thr Ala Lys Thr Leu Asn Ile Ser Arg Ala Tyr His Ile Leu Asn
 35 40 45
 Thr Leu Trp Ser Cys Ser Tyr Phe Asn Ile Pro Gly Ser Gly Gly Gln
 50 55 60
 Leu Ala Cys Leu Trp Leu Arg Ile Cys Phe His Ala Cys Phe Leu Ser
 65 70 75 80
 Phe Phe Tyr Leu

<210> 1749
 <211> 115
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any amino acid

<400> 1749
 Met Gln Pro Pro Ser Leu Leu Leu Leu Val Leu Gly Leu Leu Ala Ala
 1 5 10 15
 Pro Ala Ala Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Val
 20 25 30
 Arg Arg Thr Met Ser Glu Leu Gly Gly Pro Val Glu Asp Leu Ile Ala
 35 40 45
 Arg Xaa Pro Ile Ser Lys Tyr Ala Gln Gly Val Pro Ser Val Ala Gly
 50 55 60
 Gly Pro Val Pro Glu Xaa Leu Lys Glu Thr Thr Trp Asn Ala Gln Ile
 65 70 75 80
 Leu Arg Gly Lys Phe Xaa His Pro Gly Thr Pro Pro Arg Lys Leu Leu
 85 90 95
 Pro Pro Val Xaa Pro Phe Glu Lys Arg Gly Ser Phe Pro Thr Leu Leu
 100 105 110

Gly Ser Pro
115

<210> 1750
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (69)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (70)
<223> Xaa equals any amino acid

<400> 1750
Leu Val Val Leu Gly Val Cys Ala Ala Gln His Glu Leu Thr Pro Arg
1 5 10 15
Leu Arg Ala Gly Val Pro Val Gln Val Glu Arg Glu Asp Val Leu Leu
20 25 30
His Gln Leu Leu His Gln Val Ile Lys Xaa Gly Lys His Ile Val
35 40 45
Asp Arg Asp Ala Gly Val Gly His Ala Gln Asp Ala Val Glu Leu Gly
50 55 60
Arg Asp Glu Gly Xaa Xaa Arg Leu Leu Gly Gly Phe Pro Glu Arg Leu
65 70 75 80
Pro Leu His Leu Asp Ala Ser Gln Ala Arg Gln Thr
85 90

<210> 1751
<211> 368
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (310)
<223> Xaa equals any amino acid

<220>
<221> SITE
<222> (365)
<223> Xaa equals any amino acid

<400> 1751

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Met Gln Pro Ser Ser Leu Leu Pro Leu Ala Leu Cys Leu Leu Ala Ala
 1           5           10           15

Pro Ala Ser Ala Leu Val Arg Ile Pro Leu His Lys Phe Thr Ser Ile
          20           25           30

Arg Arg Thr Met Ser Glu Val Gly Gly Ser Val Glu Asp Leu Ile Ala
          35           40           45

Lys Gly Pro Val Ser Lys Tyr Ser Gln Ala Val Pro Ala Val Thr Glu
          50           55           60

Gly Pro Ile Pro Glu Val Leu Lys Asn Tyr Met Asp Ala Gln Tyr Tyr
          65           70           75           80

Gly Glu Ile Gly Ile Gly Thr Pro Pro Gln Cys Phe Thr Val Val Phe
          85           90           95

Asp Thr Gly Ser Ser Asn Leu Trp Val Pro Ser Ile His Cys Lys Leu
          100          105          110

Leu Asp Ile Ala Cys Trp Ile His His Lys Tyr Asn Ser Asp Lys Ser
          115          120          125

Ser Thr Tyr Val Lys Asn Gly Thr Ser Phe Asp Ile His Tyr Gly Ser
          130          135          140

Gly Ser Leu Ser Gly Tyr Leu Ser Gln Asp Thr Val Ser Val Pro Cys
          145          150          155          160

Gln Ser Ala Ser Ser Ala Ser Ala Leu Gly Gly Val Lys Val Glu Arg
          165          170          175

Gln Val Phe Gly Glu Ala Thr Lys Gln Pro Gly Ile Thr Phe Ile Ala
          180          185          190

Ala Lys Phe Asp Gly Ile Leu Gly Met Ala Tyr Pro Arg Ile Ser Val
          195          200          205

Asn Asn Val Leu Pro Val Phe Asp Asn Leu Met Gln Gln Lys Leu Val
          210          215          220

Asp Gln Asn Ile Phe Ser Phe Tyr Leu Ser Arg Asp Pro Asp Ala Gln
          225          230          235          240

Pro Gly Gly Glu Leu Met Leu Gly Gly Thr Asp Ser Lys Tyr Tyr Lys
          245          250          255

Gly Ser Leu Ser Tyr Leu Asn Val Thr Arg Lys Ala Tyr Trp Gln Val
          260          265          270

His Leu Asp Gln Val Glu Val Ala Ser Gly Leu Thr Leu Cys Lys Glu
          275          280          285

Gly Cys Glu Ala Ile Val Asp Thr Gly Thr Ser Leu Met Val Gly Pro
          290          295          300

Val Asp Glu Val Arg Xaa Leu Gln Lys Ala Ile Gly Ala Val Pro Leu
          305          310          315          320

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<400> 1753
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
  1             5             10             15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
          20             25             30
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala

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          35              40              45
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
   50              55              60
Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
   65              70              75              80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
          85              90              95
Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa
          100              105              110

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<210> 1754
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any amino acid

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<400> 1754
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
   1              5              10              15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
          20              25              30
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
          35              40              45
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
          50              55              60
Glu Arg Lys Ser Leu Leu Xaa Asn Leu Glu Glu Ala Lys Lys Lys Lys
          65              70              75              80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
          85              90              95
Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa
          100              105              110

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<210> 1755
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1755
 Met Lys Thr Leu Leu Leu Val Gly Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
 100 105 110
 Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu
 115 120 125
 Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly
 130 135

<210> 1756
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 1756
 Leu Leu Val Val Leu Leu Ser
 1 5

<210> 1757
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 1757
 Leu Leu Leu Val Gly Leu Gln Gln Leu Val Val Gln Ala Trp
 1 5 10

<210> 1758
 <211> 288
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (268)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (271)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (273)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (274)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (276)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (286)
 <223> Xaa equals any amino acid

<400> 1758
 Phe Ser Ser Ser Ala Cys Pro Ser Val Xaa Ser Leu Phe Val Xaa Leu
 1 5 10 15
 Gly Lys Asn Pro His Asp Ala Gln Gly His Pro Arg Ala Ser Glu Asp
 20 25 30
 Gln Pro Ser Ser Gly Lys Pro Val Thr Ser Tyr Pro Gly Glu Cys Gly
 35 40 45
 Phe Val Phe Thr Lys Glu Ala Ser Leu Glu Ile Arg Asp Met Leu Leu
 50 55 60
 Ala Asn Lys Val Pro Ala Ala Ala Arg Ala Gly Ala Ile Ala Pro Cys
 65 70 75 80

Glu Val Thr Val Pro Ala Gln Asn Thr Gly Leu Gly Pro Glu Lys Thr
 85 90 95
 Ser Phe Phe Gln Ala Leu Gly Ile Thr Thr Lys Ile Ser Arg Gly Thr
 100 105 110
 Ile Glu Ile Leu Ser Asp Val Gln Leu Ile Lys Thr Gly Asp Lys Val
 115 120 125
 Gly Ala Ser Glu Ala Thr Leu Leu Asn Met Leu Asn Ile Ser Pro Phe
 130 135 140
 Ser Phe Gly Leu Ile Ile Gln Gln Val Phe Asp Asn Gly Ser Ile Tyr
 145 150 155 160
 Asn Pro Glu Val Leu Asp Ile Thr Glu Glu Thr Leu His Ser Arg Phe
 165 170 175
 Leu Glu Gly Val Arg Asn Val Ala Ser Val Cys Leu Gln Ile Gly Tyr
 180 185 190
 Pro Thr Val Ala Ser Val Pro His Ser Ile Ile Asn Gly Tyr Lys Arg
 195 200 205
 Val Leu Ala Leu Ser Val Glu Thr Asp Tyr Thr Phe Pro Leu Ala Glu
 210 215 220
 Lys Val Lys Ala Phe Leu Ala Asp Pro Ser Ala Phe Val Ala Ala Ala
 225 230 235 240
 Pro Val Ala Ala Ala Thr Thr Ala Ala Pro Ala Ala Ala Ala Ala Pro
 245 250 255
 Ala Lys Val Glu Ala Lys Glu Glu Ser Glu Glu Xaa Asp Glu Xaa Ile
 260 265 270
 Xaa Xaa Ser Xaa Ile Ser Lys Ser Asn Asn Ser Ser Gln Xaa Ile Val
 275 280 285

<210> 1759
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1759
 Met Ala Pro Ser Gly Pro Leu Leu Leu Val Leu Leu Val Pro Leu Ala
 1 5 10 15
 Ala Ala Arg Pro Gly Pro Thr Ser Val Pro Ala Gly Ala Ala Ala Cys
 20 25 30
 Pro Cys Gly Gly Thr Ser Cys Arg Gly Trp Gly Ala Gly Pro Thr Pro
 35 40 45
 Gly Arg Thr Ser Thr Cys Pro His Leu Thr Cys Pro Arg Ala Gly Thr

50 55 60

Gly Ala Thr
65

<210> 1760
<211> 14
<212> PRT
<213> Homo sapiens

<400> 1760
Pro Gln Gly Pro Asn Asp Val Thr Ala Lys Leu Leu Cys Pro
1 5 10

<210> 1761
<211> 6
<212> PRT
<213> Homo sapiens

<400> 1761
Met Leu Leu Leu Tyr Leu
1 5

<210> 1762
<211> 554
<212> PRT
<213> Homo sapiens

<400> 1762
Gly Gly Gly Tyr Ala Leu Ala Leu Leu Val Leu Leu Leu Gly Pro
1 5 10 15
Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu Glu
20 25 30
Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Thr Phe Gln
35 40 45
Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser His
50 55 60
Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr Ser
65 70 75 80
Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr Arg
85 90 95
Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His Tyr
100 105 110
Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu Asn
115 120 125
Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly Leu
130 135 140

Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His Ser
 145 150 155 160
 Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr Ser
 165 170 175
 Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala Phe
 180 185 190
 Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe Ser
 195 200 205
 Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg Val Tyr
 210 215 220
 Val Asp Ile Thr Thr Tyr Asn Gln Asp Asn Glu Thr Leu Glu Val His
 225 230 235 240
 Pro Pro Pro Thr Thr Thr Tyr Gln Asp Val Ile Leu Gly Thr Arg Lys
 245 250 255
 Thr Tyr Ala Ile Tyr Asp Leu Leu Asp Thr Ala Met Ile Asn Asn Ser
 260 265 270
 Arg Asn Leu Asn Ile Gln Leu Lys Trp Lys Arg Pro Pro Glu Asn Glu
 275 280 285
 Ala Pro Pro Val Pro Phe Leu His Ala Gln Arg Tyr Val Ser Gly Tyr
 290 295 300
 Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His Pro
 305 310 315 320
 Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr Leu
 325 330 335
 Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu Asn
 340 345 350
 Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln Pro
 355 360 365
 His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr Lys
 370 375 380
 Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr Thr
 385 390 395 400
 Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser Ala
 405 410 415
 Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu Ser
 420 425 430
 Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr Phe
 435 440 445
 Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro Asp
 450 455 460

Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val Ala
 465 470 475 480
 Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe Pro His
 485 490 495
 Arg Gly Ala Pro His Arg Trp Pro Gly Gln Ala Ala Gly Gln Pro Tyr
 500 505 510
 Pro Ala Arg Pro Ser Val Pro Pro Thr Leu Ile Leu Ala Leu Ser Ser
 515 520 525
 Ser Cys Ser Cys Arg Phe Ser Leu Gly Arg Gly Ala Gln Gly Leu Phe
 530 535 540
 Leu Pro Leu Ala Leu Leu Arg Val Gly Phe
 545 550

<210> 1763
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 1763
 Gly Glu Ile Phe Leu
 1 5

<210> 1764
 <211> 453
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (432)
 <223> Xaa equals any amino acid

<400> 1764
 Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met Val Ile
 1 5 10 15
 Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg
 20 25 30
 Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val Asp Leu Gly Phe
 35 40 45
 Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln Thr Trp Leu Ala
 50 55 60
 Phe Met Ile Ile Leu Ser Ile Leu Glu Val Ile Ile Ile Leu Leu Leu
 65 70 75 80
 Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala Leu Ile Lys Glu
 85 90 95
 Ala Ser Arg Ala Val Gly Tyr Val Met Cys Ser Leu Leu Tyr Pro Leu

| 100 | 105 | 110 |
|--|-----|-----|
| Val Thr Phe Phe Leu Leu Cys Leu Cys Ile Ala Tyr Trp Ala Ser Thr 115 120 125 | | |
| Ala Val Phe Leu Ser Thr Ser Asn Glu Ala Val Tyr Lys Ile Phe Asp 130 135 140 | | |
| Asp Ser Pro Cys Pro Phe Thr Ala Lys Thr Cys Asn Pro Glu Thr Phe 145 150 155 160 | | |
| Pro Ser Ser Asn Glu Ser Arg Gln Cys Pro Asn Ala Arg Cys Gln Phe 165 170 175 | | |
| Ala Phe Tyr Gly Gly Glu Ser Gly Tyr His Arg Ala Leu Leu Gly Leu 180 185 190 | | |
| Gln Ile Phe Asn Ala Phe Met Phe Phe Trp Leu Ala Asn Phe Val Leu 195 200 205 | | |
| Ala Leu Gly Gln Val Thr Leu Ala Gly Ala Phe Ala Ser Tyr Tyr Trp 210 215 220 | | |
| Ala Leu Arg Lys Pro Asp Asp Leu Pro Ala Phe Pro Leu Phe Ser Ala 225 230 235 240 | | |
| Phe Gly Arg Ala Leu Arg Tyr His Thr Gly Ser Leu Ala Phe Gly Ala 245 250 255 | | |
| Leu Ile Leu Ala Ile Val Gln Ile Ile Arg Val Ile Leu Glu Tyr Leu 260 265 270 | | |
| Asp Gln Arg Leu Lys Ala Ala Glu Asn Lys Phe Ala Lys Cys Leu Met 275 280 285 | | |
| Thr Cys Leu Lys Cys Cys Phe Trp Cys Leu Glu Lys Phe Ile Lys Phe 290 295 300 | | |
| Leu Asn Arg Asn Ala Tyr Ile Met Ile Ala Ile Tyr Gly Thr Asn Phe 305 310 315 320 | | |
| Cys Thr Ser Ala Arg Asn Ala Phe Phe Leu Leu Met Arg Asn Ile Ile 325 330 335 | | |
| Arg Val Ala Val Leu Asp Lys Val Thr Asp Phe Leu Phe Leu Leu Gly 340 345 350 | | |
| Lys Leu Leu Ile Val Gly Ser Val Gly Ile Leu Ala Phe Phe Phe Phe 355 360 365 | | |
| Thr His Arg Ile Arg Ile Val Gln Asp Thr Ala Pro Pro Leu Asn Tyr 370 375 380 | | |
| Tyr Trp Val Pro Ile Leu Thr Val Ile Val Gly Ser Tyr Leu Ile Ala 385 390 395 400 | | |
| His Gly Phe Phe Ser Val Tyr Gly Met Cys Val Asp Thr Leu Phe Leu 405 410 415 | | |
| Cys Phe Leu Glu Asp Leu Glu Arg Asn Asp Gly Ser Ala Glu Arg Xaa 420 425 430 | | |

Tyr Phe Met Ser Ser Thr Leu Lys Lys Leu Leu Asn Lys Thr Asn Lys
 435 440 445

Lys Ala Ala Glu Ser
 450

<210> 1765
 <211> 96
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (79)
 <223> Xaa equals any amino acid

<400> 1765
 Ala Ala Arg Glu Gly Ala Pro Pro Pro Cys Pro Thr Ser Ala Ile Gly
 1 5 10 15
 Arg Ala Ser Leu Ser Leu Arg Asp Xaa Gly Arg Gly Leu Arg Asp Ala
 20 25 30
 Arg Arg Glu Lys Arg Arg Gly Val Arg Gly Gln Asp Gly Gly Asp Tyr
 35 40 45
 Gly Trp Cys Gly Pro Ala Arg Gly Arg Gly Val Ala Ala Lys Gly Thr
 50 55 60
 Ala Glu Gly Pro Thr Gly Glu Asn Arg Ala Gln Gly Xaa Lys Xaa Gly
 65 70 75 80
 Val Arg Val Ala Val Glu Ala Ser Ser Val Arg Gly Pro Gly Arg Ala
 85 90 95

<210> 1766
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (9)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (10)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (16)

<223> Xaa equals any amino acid

<400> 1766

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Gly | Tyr | Ala | Leu | Ser | Xaa | Xaa | Xaa | Asn | Arg | Val | Thr | Asp | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Met | Ile | Tyr | Phe | Phe | Ile | Ile | Ile | Val | Glu | Tyr | Phe | Tyr | Gly | Lys |
| | | | 20 | | | | | 25 | | | | | | 30 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Phe | Val | Val | Leu | Ile | Ile | Pro | Ile | Lys | Ile | Met | Pro | Asn | Thr | Lys |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Glu | Phe | Tyr | Asp | Val | His | Phe | Val | Leu | Gly | Ile | Lys | Arg | Lys | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Thr | Ser | Trp | Lys | Ser | Val | Ser | Cys | Phe | Leu | Leu | Leu |
| 65 | | | | | 70 | | | | | 75 | | |

<210> 1767

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1767

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Tyr | Ser | Phe | Cys | Val | Cys | Glu | Arg | Ala | Phe | Val | Phe | Gly | Ser | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Arg | Ala | Glu | Val | Glu | Gln | Gly | Cys | Thr | Tyr | His | Gly | Lys | Gly | Gly |
| | | | 20 | | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Lys | Glu | Asn | Trp | Ile | Ala | Cys | Asp | Leu | Trp | Trp | Asn | Leu | Phe | Leu |
| | 35 | | | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Arg | Pro | Phe | Arg | Pro | Cys | Leu | Ile | Ser | Val | Gly | His | Phe | Arg |
| | 50 | | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Trp | Gln | Gly | Arg | Ala | Gly | Leu | Gln | Ser | Glu | Val | Pro | Ala | Ser | Ser |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

Leu Glu His Asn

<210> 1768

<211> 469

<212> PRT

<213> Homo sapiens

<400> 1768

Met Arg Pro Pro Gly Phe Arg Asn Phe Leu Leu Leu Ala Ser Ser Leu
 1 5 10 15

Leu Phe Ala Gly Leu Ser Ala Val Pro Gln Ser Phe Ser Pro Ser Leu
 20 25 30

Arg Ser Trp Pro Gly Ala Ala Cys Arg Leu Ser Arg Ala Glu Ser Glu
 35 40 45

Arg Arg Cys Arg Ala Pro Gly Gln Pro Pro Gly Ala Ala Leu Cys His
 50 55 60

Gly Arg Gly Arg Cys Asp Cys Gly Val Cys Ile Cys His Val Thr Glu
 65 70 75 80

Pro Gly Met Phe Phe Gly Pro Leu Cys Glu Cys His Glu Trp Val Cys
 85 90 95

Glu Thr Tyr Asp Gly Ser Thr Cys Ala Gly His Gly Lys Cys Asp Cys
 100 105 110

Gly Lys Cys Lys Cys Asp Gln Gly Trp Tyr Gly Asp Ala Cys Gln Tyr
 115 120 125

Pro Thr Asn Cys Asp Leu Thr Lys Lys Lys Ser Asn Gln Met Cys Lys
 130 135 140

Asn Ser Gln Asp Ile Ile Cys Ser Asn Ala Gly Thr Cys His Cys Gly
 145 150 155 160

Arg Cys Lys Cys Asp Asn Ser Asp Gly Ser Gly Leu Val Tyr Gly Lys
 165 170 175

Phe Cys Glu Cys Asp Asp Arg Glu Cys Ile Asp Asp Glu Thr Glu Glu
 180 185 190

Ile Cys Gly Gly His Gly Lys Cys Tyr Cys Gly Asn Cys Tyr Cys Lys
 195 200 205

Ala Gly Trp His Gly Asp Lys Cys Glu Phe Gln Cys Asp Ile Thr Pro
 210 215 220

Trp Glu Ser Lys Arg Arg Cys Thr Ser Pro Asp Gly Lys Ile Cys Ser
 225 230 235 240

Ser Arg Gly Thr Cys Val Cys Gly Glu Cys Thr Cys His Asp Val Asp
 245 250 255

Pro Thr Gly Asp Trp Gly Asp Ile His Gly Asp Thr Cys Glu Cys Asp
 260 265 270

Glu Arg Asp Cys Arg Ala Val Tyr Asp Arg Tyr Ser Asp Asp Phe Cys
 275 280 285

Ser Gly His Gly Gln Cys Asn Cys Gly Arg Cys Asp Cys Lys Ala Gly

290 295 300
 Trp Tyr Gly Lys Lys Cys Glu His Pro Gln Ser Cys Thr Leu Ser Ala
 305 310 315 320
 Glu Glu Ser Ile Arg Lys Cys Gln Gly Ser Ser Asp Leu Pro Cys Ser
 325 330 335
 Gly Arg Gly Lys Cys Glu Cys Gly Lys Cys Thr Cys Tyr Pro Pro Gly
 340 345 350
 Asp Arg Arg Val Tyr Gly Lys Thr Cys Glu Cys Asp Asp Arg Arg Cys
 355 360 365
 Glu Asp Leu Asp Gly Val Val Cys Gly Gly His Gly Thr Cys Ser Cys
 370 375 380
 Gly Arg Cys Val Cys Glu Arg Gly Trp Phe Gly Lys Leu Cys Gln His
 385 390 395 400
 Pro Arg Lys Cys Asn Met Thr Glu Glu Gln Ser Lys Asn Leu Cys Glu
 405 410 415
 Ser Ala Asp Gly Ile Leu Cys Ser Gly Lys Gly Ser Cys His Cys Gly
 420 425 430
 Lys Cys Ile Cys Ser Ala Glu Glu Trp Tyr Ile Ser Gly Glu Phe Cys
 435 440 445
 Asp Cys Asp Asp Arg Asp Cys Asp Lys His Asp Gly Leu Ile Cys Thr
 450 455 460
 Arg Glu Trp Asn Met
 465

<210> 1769
 <211> 211
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any amino acid

<400> 1769
 Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser
 1 5 10 15
 Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu
 20 25 30
 Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Xaa Asp Leu Met
 35 40 45

Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His
 50 55 60
 Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly
 65 70 75 80
 Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys
 85 90 95
 Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly
 100 105 110
 Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn
 115 120 125
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 130 135 140
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
 145 150 155 160
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
 165 170 175
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
 180 185 190
 Glu Asp Xaa Tyr Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
 195 200 205
 Asp Glu Leu
 210

<210> 1770
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 1770
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys
 1 5 10 15
 Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg
 20 25 30
 Val Ser Gln Lys Arg Gly His Ile
 35 40

<210> 1771
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1771
 Met Gln Gly Lys Phe Met Lys Val Gln Val Tyr Arg Phe Leu Lys Tyr
 1 5 10 15

Leu Leu Met Leu Leu Cys Met Phe Val Asn Arg Gly Met Ser Lys Asp
 20 25 30
 Ser Thr Lys Lys Pro Gly Gln Glu Lys Leu Lys Val Ser Leu Gly Ser
 35 40 45
 Ile Leu Asn Met Lys Ser Gln Arg Pro Leu Ser Trp Cys
 50 55 60

<210> 1772
 <211> 315
 <212> PRT
 <213> Homo sapiens

<400> 1772
 Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Glu Leu Thr Met
 1 5 10 15
 Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
 20 25 30
 Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser
 35 40 45
 Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg
 50 55 60
 Ile Ile Phe Ser Tyr Val Gln Leu Asp Pro Asp Gly Ser Cys Glu Ser
 65 70 75 80
 Glu Asn Ile Lys Val Phe Asp Gly Thr Ser Ser Asn Gly Pro Leu Leu
 85 90 95
 Gly Gln Val Cys Ser Lys Asn Asp Tyr Val Pro Val Phe Glu Ser Ser
 100 105 110
 Ser Ser Thr Leu Thr Phe Gln Ile Val Thr Asp Ser Ala Arg Ile Gln
 115 120 125
 Arg Thr Val Phe Val Phe Tyr Tyr Phe Phe Ser Pro Asn Ile Ser Ile
 130 135 140
 Pro Asn Cys Gly Gly Tyr Leu Asp Thr Leu Glu Gly Ser Phe Thr Ser
 145 150 155 160
 Pro Asn Tyr Pro Lys Pro His Pro Glu Leu Ala Tyr Cys Val Trp His
 165 170 175
 Ile Gln Val Glu Lys Asp Tyr Lys Ile Lys Leu Asn Phe Lys Glu Ile
 180 185 190
 Phe Leu Glu Ile Asp Lys Gln Cys Lys Phe Asp Phe Leu Ala Ile Tyr
 195 200 205
 Asp Gly Pro Ser Thr Asn Ser Gly Leu Ile Gly Gln Val Cys Gly Arg
 210 215 220
 Val Thr Pro Thr Phe Glu Ser Ser Ser Asn Ser Leu Thr Val Val Leu

225 230 235 240
 Ser Thr Asp Tyr Ala Asn Ser Tyr Arg Gly Phe Ser Ala Ser Tyr Thr
 245 250 255
 Ser Ile Tyr Ala Glu Asn Ile Asn Thr Thr Ser Leu Thr Cys Ser Ser
 260 265 270
 Asp Arg Met Arg Val Ile Ile Ser Lys Ser Tyr Leu Glu Ala Phe Asn
 275 280 285
 Ser Asn Gly Asn Asn Leu Gln Leu Lys Asp Pro Thr Trp Gln Thr Lys
 290 295 300
 Ile Ile Lys Cys Cys Gly Ile Phe Cys Pro Ser
 305 310 315

<210> 1773
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1773
 Met Pro Leu Thr Leu Leu Ile Leu Ser Cys Leu Ala Asp Trp Thr Met
 1 5 10 15
 Ala Glu Ala Glu Gly Asn Ala Ser Cys Thr Val Ser Leu Gly Gly Ala
 20 25 30
 Asn Met Ala Glu Thr His Lys Ala Met Ile Leu Gln Leu Asn Pro Ser
 35 40 45
 Glu Asn Cys Thr Trp Thr Ile Glu Arg Pro Glu Asn Lys Ser Ile Arg
 50 55 60
 Ile Ile Phe Ser Tyr Val Pro Ala
 65 70

<210> 1774
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 1774
 Met Leu Phe Val Phe Cys Cys Thr Val Phe Phe Val Cys Leu Phe Val
 1 5 10 15
 Tyr Leu Val Gly Phe Leu Glu Arg Glu Ile Trp Lys Arg Asp Ile His
 20 25 30
 Lys Ser Tyr Thr Pro Thr Phe Pro Phe Tyr His Asp Ile Gln Glu Glu
 35 40 45
 Thr Ser Arg Ala Lys Asn Gly Val Lys Lys Gly Ser Met Ala Gly Thr
 50 55 60
 Ser Lys Glu Leu Arg Ala Val Ala Leu Lys Asn Tyr Phe Phe Tyr Tyr

65 70 75 80
 Tyr Phe Glu Ser Met Glu Val Phe His Ser Leu Gly Lys Gly Gly Lys
 85 90 95
 Ser Ala Phe Ile Phe Ile Gln Ser Tyr Leu Ile Thr Ser Lys Thr His
 100 105 110
 Met Leu Glu Ile Ala Phe Ala Gly Ala Lys Tyr Ile Asn Glu Gln Glu
 115 120 125
 Tyr Ile His
 130

<210> 1775
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1775
 Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser
 1 5 10 15
 Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe
 20 25 30
 Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly
 35 40 45
 Leu

<210> 1776
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 1776
 Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys
 1 5 10 15
 Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
 20 25 30
 Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
 35 40 45
 Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
 50 55 60
 Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
 65 70 75 80
 Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Gly Cys Trp Ala
 85 90 95
 Arg Ala Gly Gly His Gln Gln Lys His Leu Leu Arg Pro Arg Arg Gly

100 105 110
 Arg Glu Leu Trp Gln Val Pro Ala Ala Gly Val Pro Pro Asp Arg Gly
 115 120 125
 Met Pro Thr Pro Thr Arg Thr Asn Pro Ser Leu Ser Trp Arg Ala Ser
 130 135 140
 Ser Ser Arg Ala Arg Asn Arg Thr Ala Gly Arg Arg Ala Gly Ser Thr
 145 150 155 160
 Arg Thr Phe Trp Glu Cys Trp Ser Thr Pro Gly Pro Cys
 165 170

<210> 1777
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1777
 Met Arg Cys Gly Glu Ile Ile Leu Ala Ser Val Leu Gly Leu Leu Leu
 1 5 10 15
 Thr Leu Pro Pro Thr Ser Cys His Leu Asn Lys Ser Phe Pro Phe Leu
 20 25 30
 Cys Leu Pro Trp Ser Gln Ala Leu Ser Leu Asn Pro His Ser Gly Asn
 35 40 45
 Glu Ala Gly
 50

<210> 1778
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1778
 Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
 1 5 10 15
 Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
 20 25 30
 Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
 35 40 45

<210> 1779
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 1779

Ile Tyr Gln His Phe Ser Leu Trp Leu Gly
 1 5 10

<210> 1780

<211> 4

<212> PRT

<213> Homo sapiens

<400> 1780

Met Phe Lys Met
 1

<210> 1781

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1781

Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
 1 5 10 15

Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
 20 25 30

His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
 35 40 45

Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile
 50 55 60

Ser Glu Leu Pro Gln Gln Val Gly Glu Val Gly Thr Pro Ser Cys Asn
 65 70 75 80

<210> 1782

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1782

Asp Pro Ser Gly Ser Phe Met Gly Arg Ser Val Met Met Arg Ile Leu
 1 5 10 15

Gly Ser Pro Val Phe Phe Pro Met His Asp Thr Ser Val Cys Leu Thr
 20 25 30

Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro
 35 40 45

Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp Glu Glu Leu Gly Phe
 50 55 60

Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala
 65 70 75 80
 Glu His Pro Leu Leu Cys Glu Gly Thr Arg Arg Glu Lys Gly Asp Leu
 85 90 95
 Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys
 100 105 110
 Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro Ala Thr
 115 120 125
 Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu
 130 135 140
 Gln
 145

<210> 1783
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 1783
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1 5 10 15
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
 20 25 30
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
 35 40 45
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
 50 55 60
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65 70 75 80
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
 85 90 95
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Val Leu Pro Leu Ala Pro
 100 105 110
 Ala Gln Ser
 115

<210> 1784
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 1784
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1 5 10 15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
 20 25 30
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
 35 40 45
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
 50 55 60
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65 70 75 80
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
 85 90 95
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
 100 105 110
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
 115 120 125
 Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro
 130 135 140
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
 145 150 155 160
 Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro
 165 170

<210> 1785
 <211> 228
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any amino acid

 <220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any amino acid

<220>

<221> SITE

<222> (209)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (214)

<223> Xaa equals any amino acid

<400> 1785

Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1 5 10 15

Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
 20 25 30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
 35 40 45

Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
 50 55 60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65 70 75 80

Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Xaa Lys Arg Val Leu
 85 90 95

Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
 100 105 110

Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
 115 120 125

Lys Ala His Ser Ser Xaa Val Gln Ile Leu Cys Pro Ser Trp His Pro
 130 135 140

Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
 145 150 155 160

Trp Met Thr Lys Leu Gln Pro Ser Arg Xaa Pro Thr Ile Ser Ile Ala
 165 170 175

Gln Trp Ser Gln Lys Glu Thr Asp His Phe Thr Asp Gln Arg Asn Lys
 180 185 190

Gly Ala Xaa Leu Leu Asn Pro Gly Ala Ser Asp Arg Xaa Lys Pro Glu
 195 200 205

Xaa Arg Thr Lys Lys Xaa Pro Val Asn Ser Glu Pro Gly Glu Thr Leu
 210 215 220

Pro Phe Thr Asn
 225

<210> 1786

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1786

Asp Asn Phe Leu Leu Gly Val Ala Trp Phe Phe Arg Gly Arg Gly Ser
1 5 10 15
Ala His Val Gly Val Val Ser Arg Gln Lys Gln Trp Glu Glu Gly Thr
20 25 30
Ala Lys His Ala Ala Trp Asp Tyr Gly Cys Pro Gln Ser Cys Ser Phe
35 40 45
Ser Lys Gly Val Phe Cys Leu Phe Leu Arg Gln Gly His Thr Leu Ser
50 55 60
Pro Arg Met Glu Cys Ser Gly Pro Ile Leu Ala His Cys Asn Leu Glu
65 70 75 80

Leu Leu Gly Ser

<210> 1787

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1787

Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys
1 5 10 15
Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe
20 25 30
Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu
35 40 45
Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val
50 55 60
His Gly Lys Tyr Ser
65

<210> 1788

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (37)

<223> Xaa equals any amino acid

<400> 1788

Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
 1 5 10 15
 Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
 20 25 30
 Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
 35 40 45
 Gln Tyr Phe Pro
 50

<210> 1789

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1789

Ser Leu Lys His Phe Trp Ser Gln Gly Phe Trp Ile Lys Asp Thr Gln
 1 5 10 15
 Cys Ala Thr Cys Arg Met Val Val Ala Arg Trp Glu Glu Arg Met Glu
 20 25 30
 Ser Tyr Cys Leu Met Ile Gln Cys Phe Arg Leu Gly Arg Trp Lys Val
 35 40 45
 Leu Glu Met Cys Asp Gly Tyr Gly Cys Ala Thr Met Gly Arg Tyr Leu
 50 55 60
 Val Leu Leu Asn Cys Ala His Leu Lys Met Val Lys Met Ile Asn Phe
 65 70 75 80
 Val Tyr Val Leu Lys Gln
 85

<210> 1790

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1790

Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
 1 5 10 15
 Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
 20 25 30
 Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu
 35 40 45
 Phe Leu Leu Cys Val Trp
 50

<210> 1791

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1791

```

Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
 1             5             10             15

Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
          20             25             30

Lys Glu Lys Lys Lys Leu Leu Phe Ile Phe Thr Phe Phe Gln His
 35             40             45

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<210> 1792

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1792

```

Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu
 1             5             10             15

Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro
          20             25             30

Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg
          35             40             45

Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Lys Leu Leu Gly Gln
          50             55             60

Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro
          65             70             75             80

Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly
          85             90             95

Leu Ala Arg Trp Met Val
          100

```

<210> 1793

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any amino acid

<400> 1793

```

Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser
 1             5             10             15

```

Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
 20 25 30

Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln
 35 40 45

Arg Arg Ser His Cys
 50

<210> 1794
 <211> 575
 <212> PRT
 <213> Homo sapiens

<400> 1794
 Met Arg Val Leu Val Val Thr Ile Ala Pro Ile Tyr Trp Ala Leu Ala
 1 5 10 15

Arg Glu Ser Gly Glu Ala Leu Asn Gly His Ser Leu Thr Gly Gly Lys
 20 25 30

Phe Arg Gln Glu Ser His Val Glu Phe Ala Thr Gly Glu Leu Leu Thr
 35 40 45

Met Thr Gln Trp Pro Gly Val Trp Ile Pro Met Ala Ser Cys Ser Ser
 50 55 60

Thr Trp Trp Ser Met Ala Leu Ser Pro Asp Ser Leu Ala Asp Ala Asp
 65 70 75 80

Leu Gln Val Gln Asp Phe Glu Glu His Tyr Val Gln Thr Gly Pro Gly
 85 90 95

Gln Leu Phe Val Gly Ser Thr Gln Arg Phe Phe Gln Gly Gly Leu Pro
 100 105 110

Ser Phe Leu Arg Cys Asn His Ser Ile Gln Tyr Asn Ala Ala Arg Gly
 115 120 125

Pro Gln Pro Gln Leu Val Gln His Leu Arg Ala Ser Ala Ile Ser Ser
 130 135 140

Ala Phe Asp Pro Glu Ala Glu Ala Leu Arg Phe Gln Leu Ala Thr Ala
 145 150 155 160

Leu Gln Ala Glu Glu Asn Glu Val Gly Cys Pro Glu Gly Phe Glu Leu
 165 170 175

Asp Ser Gln Gly Ala Phe Cys Val Asp Val Asp Glu Cys Ala Trp Asp
 180 185 190

Ala His Leu Cys Arg Glu Gly Gln Arg Cys Val Asn Leu Leu Gly Ser
 195 200 205

Tyr Arg Cys Leu Pro Asp Cys Gly Pro Gly Phe Arg Val Ala Asp Gly
 210 215 220

Ala Gly Cys Glu Asp Val Asp Glu Cys Leu Glu Gly Leu Asp Asp Cys

225 230 235 240
 His Tyr Asn Gln Leu Cys Glu Asn Thr Pro Gly Gly His Arg Cys Ser
 245 250 255
 Cys Pro Arg Gly Tyr Arg Met Gln Gly Pro Ser Leu Pro Cys Leu Asp
 260 265 270
 Val Asn Glu Cys Leu Gln Leu Pro Lys Ala Cys Ala Tyr Gln Cys His
 275 280 285
 Asn Leu Gln Gly Ser Tyr Arg Cys Leu Cys Pro Pro Gly Gln Thr Leu
 290 295 300
 Leu Arg Asp Gly Lys Ala Cys Thr Ser Leu Glu Arg Asn Gly Gln Asn
 305 310 315 320
 Val Thr Thr Val Ser His Arg Gly Pro Leu Leu Pro Trp Leu Arg Pro
 325 330 335
 Trp Ala Ser Ile Pro Gly Thr Ser Tyr His Ala Trp Val Ser Leu Arg
 340 345 350
 Pro Gly Pro Met Ala Leu Ser Ser Val Gly Arg Ala Trp Cys Pro Pro
 355 360 365
 Gly Phe Ile Arg Gln Asn Gly Val Cys Thr Asp Leu Asp Glu Cys Arg
 370 375 380
 Val Arg Asn Leu Cys Gln His Ala Cys Arg Asn Thr Glu Gly Ser Tyr
 385 390 395 400
 Gln Cys Leu Cys Pro Ala Gly Tyr Arg Leu Leu Pro Ser Gly Lys Asn
 405 410 415
 Cys Gln Asp Ile Asn Glu Cys Glu Glu Glu Ser Ile Glu Cys Gly Pro
 420 425 430
 Gly Gln Met Cys Phe Asn Thr Arg Gly Ser Tyr Gln Cys Val Asp Thr
 435 440 445
 Pro Cys Pro Ala Thr Tyr Arg Gln Gly Pro Ser Pro Gly Thr Cys Phe
 450 455 460
 Arg Arg Cys Ser Gln Asp Cys Gly Thr Gly Gly Pro Ser Thr Leu Gln
 465 470 475 480
 Tyr Arg Leu Leu Pro Leu Pro Leu Gly Val Arg Ala His His Asp Val
 485 490 495
 Ala Arg Leu Thr Ala Phe Ser Glu Val Gly Val Pro Ala Asn Arg Thr
 500 505 510
 Glu Leu Ser Met Leu Glu Pro Asp Pro Arg Ser Pro Phe Ala Leu Arg
 515 520 525
 Pro Leu Arg Ala Gly Leu Gly Ala Val Tyr Thr Arg Arg Ala Leu Thr
 530 535 540
 Arg Ala Gly Leu Tyr Arg Leu Thr Val Arg Ala Ala Ala Pro Arg His
 545 550 555 560

Gln Ser Val Phe Val Leu Leu Ile Ala Val Ser Pro Tyr Pro Tyr
 565 570 575

<210> 1795

<211> 146

<212> PRT

<213> Homo sapiens

<400> 1795

Met Arg Val Leu Val Val Thr Ile Ala Pro Ile Tyr Trp Ala Leu Ala
 1 5 10 15

Arg Glu Ser Gly Glu Ala Leu Asn Gly His Ser Leu Thr Gly Gly Lys
 20 25 30

Phe Arg Gln Ser His Thr Trp Ser Leu Leu Gln Gly Ala Ala His Asp
 35 40 45

Asp Pro Val Ala Arg Gly Leu Asp Pro Asp Gly Leu Leu Leu Asp
 50 55 60

Val Val Val Asn Gly Val Val Pro Gly Arg Ala Trp Leu Thr Gln Ile
 65 70 75 80

Phe Lys Cys Arg Thr Leu Lys Lys His Tyr Val Gln Thr Arg Ala Trp
 85 90 95

Pro Ala Val Arg Gly Leu His Thr Ala Leu Leu Pro Gly Arg Pro Pro
 100 105 110

Leu Val Pro Thr Leu Gln Pro Gln His Pro Val Gln Arg Gly Pro Gly
 115 120 125

Pro Pro Ala Pro Ala Gly Ala Ala Pro Ala Gly Leu Ser Tyr Gln Leu
 130 135 140

Gly Leu
 145

<210> 1796

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any amino acid

<400> 1796

Met Trp Asp Thr Phe Val Arg Asp Arg Asp Phe Ser Ala Tyr Leu Phe
 1 5 10 15

Leu His Leu Leu Pro Pro Leu Ser Ala Cys Gly Leu Asn Ala Ser Leu
 20 25 30

Tyr Thr Ala Thr Pro Ile Val Trp Val Xaa His Thr Ser Pro Gln Asp
 35 40 45

<210> 1797

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any amino acid

<400> 1797

Met Gln Ala Pro Leu Gln Asp Cys Gly Arg Ser Val Ser Leu Arg Leu
 1 5 10 15

Ala Cys Val Leu Ala Pro Leu Thr Thr Ser Ser Arg Gly Cys His Leu
 20 25 30

Gln Leu Pro Gln Asp Lys Gly Lys Ala Arg Xaa Asp Ser
 35 40 45

<210> 1798

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1798

Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
 1 5 10 15

Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
 20 25 30

Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
 35 40 45

Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
 50 55 60

Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
 65 70 75 80

Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
 85 90 95

Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
 100 105 110

Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
 115 120 125

Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys

130 135 140
 Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr
 145 150 155 160
 Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr
 165 170 175
 Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala
 180 185 190
 Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala
 195 200 205
 Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu
 210 215 220
 Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met
 225 230 235 240
 Arg Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser
 245 250 255
 Gln Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu
 260 265 270
 Tyr Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp
 275 280 285
 Thr Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val
 290 295 300
 Cys
 305

<210> 1799
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1799
 Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
 1 5 10 15
 Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
 20 25 30
 Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln
 35 40 45
 Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
 50 55 60
 Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly
 65 70 75 80
 Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val
 85 90 95

Gln

<210> 1800

<211> 219

<212> PRT

<213> Homo sapiens

<400> 1800

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Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala
 1           5           10           15

Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro
          20           25           30

Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val
          35           40           45

Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile
          50           55           60

Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr
          65           70           75           80

Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe
          85           90           95

Leu Asn Arg Ala Leu Asp Ile Phe Asn Thr Ser Leu Val Phe Pro Ile
          100          105          110

Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu
          115          120          125

Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu
          130          135          140

Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe
          145          150          155          160

Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn
          165          170          175

Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp
          180          185          190

Lys Asn Val Leu Val Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro
          195          200          205

Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser
          210          215

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<210> 1801

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
 <222> (104)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (197)
 <223> Xaa equals any amino acid

<400> 1801
 Met Glu Met Ala Ser Lys Met Lys Asp Thr Gly Phe Ile Val Phe Ala
 1 5 10 15
 Val Leu Leu Leu Val Ser Cys Leu Ile Leu Ile Phe Val Ile Ala Pro
 20 25 30
 Arg Tyr Gly Gln Arg Asn Ile Leu Ile Tyr Ile Ile Ile Cys Ser Val
 35 40 45
 Ile Gly Ala Phe Ser Val Ala Ala Val Lys Gly Leu Gly Ile Thr Ile
 50 55 60
 Lys Asn Phe Phe Gln Gly Leu Pro Val Val Arg His Pro Leu Pro Tyr
 65 70 75 80
 Ile Leu Ser Leu Ile Leu Ala Leu Ser Leu Ser Thr Gln Val Asn Phe
 85 90 95
 Leu Asn Arg Ala Leu Asp Ile Xaa Asn Thr Ser Leu Val Phe Pro Ile
 100 105 110
 Tyr Tyr Val Phe Phe Thr Thr Val Val Val Thr Ser Ser Ile Ile Leu
 115 120 125
 Phe Lys Glu Trp Tyr Ser Met Ser Ala Val Asp Ile Ala Gly Thr Leu
 130 135 140
 Ser Gly Phe Val Thr Ile Ile Leu Gly Val Phe Met Leu His Ala Phe
 145 150 155 160
 Lys Asp Leu Asp Ile Ser Cys Ala Ser Leu Pro His Met His Lys Asn
 165 170 175
 Pro Pro Pro Ser Pro Ala Pro Glu Pro Thr Val Ile Arg Leu Glu Asp
 180 185 190
 Lys Asn Val Leu Xaa Asp Asn Ile Glu Leu Ala Ser Thr Ser Ser Pro
 195 200 205
 Glu Glu Lys Pro Lys Val Phe Ile Ile His Ser
 210 215

<210> 1802
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1802
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala

```

      1             5             10             15
Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
      20             25             30
Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
      35             40             45
Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
      50             55             60
Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
      65             70             75             80
Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
      85             90             95
Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
      100            105            110
Ala Ala Leu Gly Ala Ala Ser Ala His
      115            120

```

<210> 1803
 <211> 218
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (217)
 <223> Xaa equals any amino acid

```

<400> 1803
Met Val Ser Trp Met Ile Cys Arg Leu Val Val Leu Val Phe Gly Met
  1             5             10             15
Leu Cys Pro Ala Tyr Ala Ser Tyr Lys Ala Val Lys Thr Lys Asn Ile
      20             25             30
Arg Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe Ala Leu Phe
      35             40             45
Met Ala Ala Glu Ile Val Thr Asp Ile Phe Ile Ser Trp Phe Pro Phe
      50             55             60
Tyr Tyr Glu Ile Lys Met Ala Phe Val Leu Trp Leu Leu Ser Pro Tyr
      65             70             75             80
Thr Lys Gly Ala Ser Cys Phe Thr Ala Ser Leu Ser Thr Arg Pro Cys
      85             90             95
Pro Ala Met Arg Arg Arg Ser Thr Arg Thr Ser Cys Arg Pro Arg Ser
      100            105            110

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Ala Ala Thr Arg Pro Cys Ser Ala Ser Gly Ser Gly Ala Ser Thr Leu
 115 120 125

Pro Pro Pro Leu Leu Cys Arg Leu Pro Pro Xaa Val Arg Gly Arg Trp
 130 135 140

Pro Ala Gly Cys Gly Ala Ser Pro Cys Arg Thr Cys Ala Pro Ser Leu
 145 150 155 160

Thr His Leu Pro Leu Pro Thr Met Thr Pro Ser Thr Trp Arg Thr Arg
 165 170 175

Cys Pro Thr Gly Gly His Pro Leu Gly Thr Gly Pro Gly Ala Cys Arg
 180 185 190

Thr Ala Thr Pro Arg Met Ser Val Gly Gln Ile Leu Arg Gln Ser Pro
 195 200 205

Gly Arg Gln Pro Gly Pro Glu Arg Xaa Pro
 210 215

<210> 1804
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1804
 Met Val Ile Ser Ile Phe Phe Ser Leu Pro Phe Ser Thr Ser Ala Tyr
 1 5 10 15

Thr Leu Ile Ala Pro Asn Ile Asn Arg Arg Asn Glu Ile Gln Arg Ile
 20 25 30

Ala Asp Arg Ser Trp Pro Thr Trp Arg Ser Gly Arg Ser Arg Thr Glu
 35 40 45

Leu Asn Arg Phe Thr Trp Cys Pro Asp Gly
 50 55

<210> 1805
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1805
 Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr
 1 5 10 15

Leu Phe Cys Phe Ala Tyr Thr Leu Ile His Leu Ile Leu Leu Thr Thr
 20 25 30

Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln
 35 40 45

Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu
 50 55

<210> 1806
 <211> 327
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (300)
 <223> Xaa equals any amino acid

<400> 1806
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly
 1 5 10 15
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg
 20 25 30
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His
 35 40 45
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala
 50 55 60
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly
 65 70 75 80
 Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val
 85 90 95
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His
 100 105 110
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg
 115 120 125
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His
 130 135 140
 Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr
 145 150 155 160
 Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln
 165 170 175
 Asp Gly Asp Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His
 180 185 190
 Pro Glu Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu
 195 200 205
 Glu Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr
 210 215 220
 Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala Trp
 225 230 235 240
 Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu Asn Lys
 245 250 255

Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val Leu Pro Pro
 260 265 270
 Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu Leu His Glu Ser
 275 280 285
 Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala Xaa Ile Leu Gly Asn
 290 295 300
 Trp Asn Met Phe Val Gly Ser Gln Ala Thr Asn Tyr Gly Glu Asp Leu
 305 310 315 320
 Thr Arg His His Asp Glu Leu
 325

<210> 1807
 <211> 184
 <212> PRT ...
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (145)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (148)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any amino acid

<400> 1807
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly
 1 5 10 15
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg
 20 25 30
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His
 35 40 45
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala
 50 55 60

Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly
 65 70 75 80
 Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val
 85 90 95
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His
 100 105 110
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg
 115 120 125
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Xaa Thr Tyr Gly His
 130 135 140
 Xaa Xaa Pro Xaa Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr
 145 150 155 160
 Lys Lys Met Leu Xaa Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln
 165 170 175
 Asp Gly Asp Ser Met Ala Thr Arg
 180

<210> 1808
 <211> 171
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (151)
 <223> Xaa equals any amino acid

<400> 1808
 Met Tyr Ser Leu His Ser Trp Val Gly Leu Ile Ala Val Ile Cys Tyr
 1 5 10 15
 Leu Leu Gln Leu Leu Ser Gly Phe Ser Val Phe Leu Leu Pro Trp Ala
 20 25 30
 Pro Leu Ser Leu Arg Ala Phe Leu Met Pro Ile His Val Tyr Ser Gly
 35 40 45
 Ile Val Ile Phe Gly Thr Val Ile Ala Thr Ala Leu Met Gly Leu Thr
 50 55 60
 Glu Lys Leu Ile Phe Ser Leu Arg Asp Pro Ala Tyr Ser Thr Phe Pro
 65 70 75 80
 Pro Glu Gly Val Phe Val Asn Thr Leu Gly Leu Leu Ile Leu Val Phe
 85 90 95
 Gly Ala Leu Ile Phe Trp Ile Val Thr Arg Pro Gln Trp Lys Arg Pro
 100 105 110
 Lys Glu Pro Asn Ser Thr Ile Leu His Pro Asn Gly Gly Thr Glu Gln
 115 120 125

Gly Ala Arg Gly Ser Met Pro Ala Tyr Ser Gly Asn Asn Met Asp Lys
 130 135 140

Ser Asp Ser Glu Leu Asn Xaa Glu Val Ala Ala Arg Lys Arg Asn Leu
 145 150 155 160

Ala Leu Asp Glu Ala Gly Gln Arg Ser Thr Met
 165 170

<210> 1809

<211> 509

<212> PRT

<213> Homo sapiens

<400> 1809

Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
 1 5 10 15

Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
 20 25 30

His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
 35 40 45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
 50 55 60

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
 65 70 75 80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
 85 90 95

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
 100 105 110

Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
 115 120 125

Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
 130 135 140

Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser
 145 150 155 160

Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr
 165 170 175

Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln
 180 185 190

Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
 195 200 205

Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
 210 215 220

Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
 225 230 235 240

Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala
 245 250 255
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
 260 265 270
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly
 275 280 285
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Ala Gly Arg Pro
 290 295 300
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
 305 310 315 320
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
 325 330 335
 Thr Ala Pro Ala Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
 340 345 350
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
 355 360 365
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
 370 375 380
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr
 385 390 395 400
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
 405 410 415
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg
 420 425 430
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
 435 440 445
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
 450 455 460
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
 465 470 475 480
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys
 485 490 495
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val
 500 505

<210> 1810
 <211> 554
 <212> PRT
 <213> Homo sapiens

<400> 1810
 Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly

| 1 | 5 | 10 | 15 |
|-----------------|-----------------|-----------------|-----------------|
| Ser Glu Pro His | Pro His Ala Thr | Ile Arg Gly Ser | His Gly Gly Arg |
| 20 | | 25 | 30 |
| Lys Val Pro Leu | Val Ser Pro Asp | Ser Ser Arg Pro | Ala Arg Phe Leu |
| 35 | | 40 | 45 |
| Arg His Thr Gly | Arg Ser Arg Gly | Ile Glu Arg Ser | Thr Leu Glu Glu |
| 50 | | 55 | 60 |
| Pro Asn Leu Gln | Pro Leu Gln Arg | Arg Arg Ser Val | Pro Val Leu Arg |
| 65 | 70 | 75 | 80 |
| Leu Ala Arg Pro | Thr Glu Pro Pro | Ala Arg Ser Asp | Ile Asn Gly Ala |
| | 85 | 90 | 95 |
| Ala Val Arg Pro | Glu Gln Arg Pro | Ala Ala Arg Gly | Ser Pro Arg Glu |
| | 100 | 105 | 110 |
| Met Ile Arg Asp | Glu Gly Ser Ser | Ala Arg Ser Arg | Met Leu Arg Phe |
| 115 | | 120 | 125 |
| Pro Ser Gly Ser | Ser Ser Pro Asn | Ile Leu Ala Ser | Phe Ala Gly Lys |
| 130 | | 135 | 140 |
| Asn Arg Val Trp | Val Ile Ser Ala | Pro His Ala Ser | Glu Gly Tyr Tyr |
| 145 | 150 | 155 | 160 |
| Arg Leu Met Met | Ser Leu Leu Lys | Asp Asp Val Tyr | Cys Glu Leu Ala |
| | 165 | 170 | 175 |
| Glu Arg His Ile | Gln Gln Ile Val | Leu Phe His Gln | Ala Gly Glu Glu |
| | 180 | 185 | 190 |
| Gly Gly Lys Val | Arg Arg Ile Thr | Ser Glu Gly Gln | Ile Leu Glu Gln |
| | 195 | 200 | 205 |
| Pro Leu Asp Pro | Ser Leu Ile Pro | Lys Leu Met Ser | Phe Leu Lys Leu |
| 210 | | 215 | 220 |
| Glu Lys Gly Lys | Phe Gly Met Val | Leu Leu Lys Lys | Thr Leu Gln Val |
| 225 | 230 | 235 | 240 |
| Glu Glu Arg Tyr | Pro Tyr Pro Val | Arg Leu Glu Ala | Met Tyr Glu Val |
| | 245 | 250 | 255 |
| Ile Asp Gln Gly | Pro Ile Arg Arg | Ile Glu Lys Ile | Arg Gln Lys Gly |
| | 260 | 265 | 270 |
| Phe Val Gln Lys | Cys Lys Ala Ser | Gly Val Glu Gly | Gln Val Val Ala |
| | 275 | 280 | 285 |
| Glu Gly Asn Asp | Gly Gly Gly Gly | Ala Gly Arg Pro | Ser Gln Gly Ser |
| 290 | | 295 | 300 |
| Glu Lys Lys Lys | Glu Asp Pro Arg | Arg Ala Gln Val | Pro Pro Thr Arg |
| 305 | 310 | 315 | 320 |
| Glu Ser Arg Val | Lys Val Leu Arg | Lys Leu Ala Ala | Thr Ala Pro Ala |
| | 325 | 330 | 335 |

Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala
 340 345 350
 Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys
 355 360 365
 Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu
 370 375 380
 Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile
 385 390 395 400
 Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro
 405 410 415
 Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala
 420 425 430
 Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile
 435 440 445
 Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn
 450 455 460
 Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro
 465 470 475 480
 Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln
 485 490 495
 Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg
 500 505 510
 Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro
 515 520 525
 Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro
 530 535 540
 Glu Lys Glu Lys Lys Lys Lys Lys Lys Lys
 545 550

<210> 1811

<211> 247

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (166)

<223> Xaa equals any amino acid

<400> 1811

Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu Leu
 1 5 10 15
 Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu Lys Val
 20 25 30

Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu Val Gly
 35 40 45
 Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly Arg Glu
 50 55 60
 Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His Thr Gly
 65 70 75 80
 Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met Asp Lys
 85 90 95
 Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys Glu Ala
 100 105 110
 Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala Gly Lys
 115 120 125
 Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His Gln Ala
 130 135 140
 Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala Ala Asp
 145 150 155 160
 Gln Ala Gly Lys Glu Xaa Glu Lys Leu Gly Pro Ser Ala His His Ala
 165 170 175
 Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly Val Asn
 180 185 190
 Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His Gln Ser
 195 200 205
 Gly Ser Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu Ala Ser
 210 215 220
 Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu Trp Arg
 225 230 235 240
 Ser Val Ala Asn Ile Met Pro
 245

<210> 1812

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1812

Met Ala Gly Cys Cys Leu Lys Leu Phe Gly Val Leu Ser Leu Cys Phe
 1 5 10 15
 Leu Cys Gly Leu Ile Ser Ile Glu Arg Val Ile Cys Asn Pro Val Ser
 20 25 30
 Ala Asp Phe Gln Val Ser Thr Phe Cys Gln Arg His Cys Leu Leu Arg
 35 40 45
 Ser Lys Val Met Phe Pro Ile Arg Gly

50

55

<210> 1813
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1813
 Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln
 1 5 10 15
 Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu
 20 25 30
 Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys
 35 40

<210> 1814
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 1814
 Leu Leu Leu Ser Ser Phe
 1 5

<210> 1815
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 1815
 Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys
 1 5 10 15
 Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His
 20 25 30
 Leu Lys Thr Met Gly Ser Gly Tyr Ala
 35 40

<210> 1816
 <211> 218
 <212> PRT
 <213> Homo sapiens

<400> 1816
 Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu
 1 5 10 15
 Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys
 20 25 30

Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys
 35 40 45
 Gly Asp Leu Leu Asn Ala His Tyr Asp Gly Tyr Leu Ala Lys Asp Gly
 50 55 60
 Ser Lys Phe Tyr Cys Ser Arg Thr Gln Asn Glu Gly His Pro Lys Trp
 65 70 75 80
 Phe Val Leu Gly Val Gly Gln Val Ile Lys Gly Leu Asp Ile Ala Met
 85 90 95
 Thr Asp Met Cys Pro Gly Glu Lys Arg Lys Val Val Ile Pro Pro Ser
 100 105 110
 Phe Ala Tyr Gly Lys Glu Gly Tyr Ala Glu Gly Lys Ile Pro Pro Asp
 115 120 125
 Ala Thr Leu Ile Phe Glu Ile Glu Leu Tyr Ala Val Thr Lys Gly Pro
 130 135 140
 Arg Ser Ile Glu Thr Phe Lys Gln Ile Asp Met Asp Asn Asp Arg Gln
 145 150 155 160
 Leu Ser Lys Ala Glu Ile Asn Leu Tyr Leu Gln Arg Glu Phe Glu Lys
 165 170 175
 Asp Glu Lys Pro Arg Asp Lys Ser Tyr Gln Asp Ala Val Leu Glu Asp
 180 185 190
 Ile Phe Lys Lys Asn Asp His Asp Gly Asp Gly Phe Ile Ser Pro Lys
 195 200 205
 Glu Tyr Asn Val Tyr Gln His Asp Glu Leu
 210 215

<210> 1817
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1817
 Met His Phe Leu Phe Arg Phe Ile Val Phe Phe Tyr Leu Trp Gly Leu
 1 5 10 15
 Phe Thr Ala Gln Arg Gln Lys Lys Glu Glu Ser Thr Glu Glu Val Lys
 20 25 30
 Ile Glu Val Leu His Arg Pro Glu Asn Cys Ser Lys Thr Ser Lys Lys
 35 40 45
 Gly Asp Leu Leu Lys Cys Pro Leu
 50 55

<210> 1818
 <211> 606
 <212> PRT

<213> Homo sapiens

<400> 1818

Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro
 1 5 10 15

Ile Leu Ile Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
 20 25 30

Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
 35 40 45

Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu
 50 55 60

Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly
 65 70 75 80

Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg
 85 90 95

Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser
 100 105 110

Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr
 115 120 125

Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr
 130 135 140

Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp
 145 150 155 160

Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe
 165 170 175

Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu
 180 185 190

Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp
 195 200 205

Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp
 210 215 220

Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile
 225 230 235 240

Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile
 245 250 255

Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu
 260 265 270

Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn
 275 280 285

Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg
 290 295 300

Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu

305 310 315 320
 Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His
 325 330 335
 Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr
 340 345 350
 Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly
 355 360 365
 Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser
 370 375 380
 Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala
 385 390 395 400
 Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu
 405 410 415
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile
 420 425 430
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys
 435 440 445
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val
 450 455 460
 Ile His Met Thr Val Gly Gly Phe Leu Pro Phe Ser Ala Ile Ser Val
 465 470 475 480
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr
 485 490 495
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Ala Ile Leu Leu Ser Val Gly
 500 505 510
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp
 515 520 525
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Ser Thr Gly Leu
 530 535 540
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met
 545 550 555 560
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr
 565 570 575
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser
 580 585 590
 Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp
 595 600 605

<210> 1819

<211> 295

<212> PRT

<213> Homo sapiens

<400> 1819

Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
 1 5 10 15
 Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
 20 25 30
 Arg Pro Glu Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg
 35 40 45
 Ala Arg Leu Gln Gly Ser Ala Thr Ala Ala Glu Ala Ser Leu Leu Arg
 50 55 60
 Arg Thr His Leu Cys Ser Leu Ser Lys Ser Asp Thr Arg Leu His Glu
 65 70 75 80
 Leu His Arg Gly Pro Arg Ser Ser Arg Ala Leu Arg Pro Ala Ser Met
 85 90 95
 Asp Leu Leu Arg Pro His Trp Leu Glu Val Ser Arg Asp Ile Thr Gly
 100 105 110
 Pro Gln Ala Ala Pro Ser Ala Phe Pro His Gln Glu Leu Pro Arg Ala
 115 120 125
 Leu Pro Ala Ala Ala Ala Thr Ala Gly Cys Ala Gly Leu Glu Ala Thr
 130 135 140
 Tyr Ser Asn Val Gly Leu Ala Ala Leu Pro Gly Val Ser Leu Ala Ala
 145 150 155 160
 Ser Pro Val Val Ala Glu Tyr Ala Arg Val Gln Lys Arg Lys Gly Thr
 165 170 175
 His Arg Ser Pro Gln Glu Pro Gln Gln Gly Lys Thr Glu Val Thr Pro
 180 185 190
 Ala Ala Gln Val Asp Val Leu Tyr Ser Arg Val Cys Lys Pro Lys Arg
 195 200 205
 Arg Asp Pro Gly Pro Thr Thr Asp Pro Leu Asp Pro Lys Gly Gln Gly
 210 215 220
 Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu
 225 230 235 240
 Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser
 245 250 255
 Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala
 260 265 270
 Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg
 275 280 285
 Pro Leu Pro Ala Ser Leu Pro
 290 295

<210> 1820
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 1820
 Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
 1 5 10 15
 Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
 20 25 30
 Ser Pro Arg Thr Leu
 35

<210> 1821
 <211> 172
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (107)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any amino acid

<400> 1821
 Met Ser Phe Leu Cys Leu Val Val Leu Tyr Tyr Ile Val Trp Ser Leu
 1 5 10 15
 Leu Phe Leu Arg Ser Leu Asp Val Val Ala Glu Gln Arg Arg Thr His
 20 25 30
 Val Thr Met Ala Ile Ser Trp Ile Thr Ile Val Val Pro Leu Leu Thr
 35 40 45
 Phe Glu Val Leu Leu Val His Arg Leu Asp Gly His Asn Thr Phe Ser
 50 55 60
 Tyr Val Ser Ile Phe Val Pro Leu Trp Leu Ser Leu Leu Thr Leu Met
 65 70 75 80
 Ala Thr Thr Phe Arg Arg Lys Gly Gly Asn His Trp Trp Phe Gly Ile
 85 90 95
 Arg Arg Asp Phe Cys Gln Phe Leu Leu Glu Xaa Phe Pro Phe Leu Arg
 100 105 110
 Glu Tyr Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Ser Glu Asp
 115 120 125
 Ala Glu Glu Xaa Ser Val Pro Glu Ala Pro Lys Ile Ala Pro Ile Phe
 130 135 140

Gly Lys Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val
 145 150 155 160

Pro Pro Pro Pro Lys Leu Asn Ile Asp Met Pro Asp
 165 170

<210> 1822
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1822
 Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser
 1 5 10 15
 Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tyr His
 20 25 30
 Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met
 35 40 45
 Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile
 50 55 60

<210> 1823
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 1823
 Ile Thr Phe Ser Cys Phe Phe Cys Asn Asn Cys Ser Gln Val Asn Leu
 1 5 10 15

Gln

<210> 1824
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any amino acid

<400> 1824

Met Arg Phe Trp Phe Leu Val Phe Xaa Phe Phe Phe Phe Pro Glu Ala
 1 5 10 15
 His Val Tyr Pro Thr Ser Trp Xaa Val Ser Glu Gln Gly Xaa Ala Thr
 20 25 30
 Ile Ser Val Thr Pro Gly Ile Leu Asn Trp Ile Phe Val Glu Glu Glu
 35 40 45
 Asn Asn Thr Val Leu Asp Phe Pro
 50 55

<210> 1825

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1825

Arg Ser Arg Ser Lys Pro Arg Cys Asn Cys Glu Ile Val Thr Ile Phe
 1 5 10 15
 Phe Ala Arg Phe Lys Ile Gly Pro Gly Arg His Arg Lys Arg Lys Ile
 20 25 30
 Pro Lys Leu Cys Ser Ser Gly Ser Thr Ile Gly Arg Val Tyr Ser Leu
 35 40 45
 Pro Gly Leu Leu Arg Arg Gly Ser Cys Leu Phe Gly Tyr Ile Thr Pro
 50 55 60
 Asp Trp Phe Val Leu Lys Ile Asn Val Ile Met Leu Val Ser Tyr Leu
 65 70 75 80
 Met Val Ser Leu Glu His Ser Pro Leu Ile Leu Phe Glu Arg Val Gly
 85 90 95
 Gly Arg Asp Cys Glu Gly Arg Glu Lys Cys
 100 105

<210> 1826

<211> 279

<212> PRT

<213> Homo sapiens

<400> 1826

Glu Glu Arg Trp Lys Ser Pro Glu Val Arg Trp Ala Pro Gly Val Ala
 1 5 10 15
 Met Glu Glu Ser Gly Tyr Glu Ser Val Leu Cys Val Lys Pro Asp Val
 20 25 30
 His Val Tyr Arg Ile Pro Pro Arg Ala Thr Asn Arg Gly Tyr Arg Ala
 35 40 45

Ala Glu Trp Gln Leu Asp Gln Pro Ser Trp Ser Gly Arg Leu Arg Ile
 50 55 60
 Thr Ala Lys Gly Gln Met Ala Tyr Ile Lys Leu Glu Asp Arg Thr Ser
 65 70 75 80
 Gly Glu Leu Phe Ala Gln Ala Pro Val Asp Gln Phe Pro Gly Thr Ala
 85 90 95
 Val Glu Ser Val Thr Asp Ser Ser Arg Tyr Phe Val Ile Arg Ile Glu
 100 105 110
 Asp Gly Asn Gly Arg Arg Ala Phe Ile Gly Ile Gly Phe Gly Asp Arg
 115 120 125
 Gly Asp Ala Phe Asp Phe Asn Val Ala Leu Gln Asp His Phe Lys Trp
 130 135 140
 Val Lys Gln Gln Cys Glu Phe Ala Lys Gln Ala Gln Asn Pro Asp Gln
 145 150 155 160
 Gly Pro Lys Leu Asp Leu Gly Phe Lys Glu Gly Gln Thr Ile Lys Leu
 165 170 175
 Asn Ile Ala Asn Met Lys Lys Lys Glu Gly Ala Ala Gly Asn Pro Arg
 180 185 190
 Val Arg Pro Ala Ser Thr Gly Gly Leu Ser Leu Leu Pro Pro Pro Pro
 195 200 205
 Gly Gly Lys Thr Ser Thr Leu Ile Pro Pro Pro Gly Glu Gln Leu Ala
 210 215 220
 Val Gly Gly Ser Leu Val Gln Pro Ala Val Ala Pro Ser Ser Gly Gly
 225 230 235 240
 Ala Pro Val Pro Trp Pro Gln Pro Asn Pro Ala Thr Ala Asp Ile Trp
 245 250 255
 Gly Asp Phe Thr Lys Ser Thr Gly Ser Thr Ser Ser Gln Thr Gln Pro
 260 265 270
 Gly Thr Gly Trp Val Gln Phe
 275

<210> 1827

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1827

Met Leu Phe Pro Leu Leu Ala Trp Pro His Leu Leu Ser Leu Trp Val
 1 5 10 15
 Cys Leu Thr Ala Thr Ser Pro Ser Lys Pro Ser Ala Pro His Ser His
 20 25 30
 Gln Met Asp Leu Cys Leu Leu His
 35 40

<210> 1828

<211> 305

<212> PRT

<213> Homo sapiens

<400> 1828

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Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Leu Gly Leu Ser Ala
  1                      5                      10                      15

Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu
          20          25          30

Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg
          35          40          45

Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro Val His Leu
          50          55          60

Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys
          65          70          75          80

Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe
          85          90          95

Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu
          100          105          110

Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala
          115          120          125

Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys
          130          135          140

Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala
          145          150          155          160

Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val
          165          170          175

Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu
          180          185          190

Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu
          195          200          205

Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu
          210          215          220

Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu
          225          230          235          240

Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile
          245          250          255

Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg
          260          265          270

Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg

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275 280 285
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser
 290 295 300

Leu
 305

<210> 1829
 <211> 127
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any amino acid

<400> 1829
 Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
 1 5 10 15
 Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr
 20 25 30
 Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala
 35 40 45
 Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
 50 55 60
 Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly
 65 70 75 80
 Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp
 85 90 95
 Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys
 100 105 110
 Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Xaa
 115 120 125

<210> 1830
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 1830
 Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val
 1 5 10 15
 Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly
 20 25 30
 Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp
 35 40 45

Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala
 50 55 60
 Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu
 65 70 75 80
 Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln
 85 90 95
 Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp
 100 105 110
 Pro Ile Ala Met Glu Tyr Tyr Asn Trp Gly Arg Phe Ser Lys Pro Pro
 115 120 125
 Glu Asp Asp Asp Ala Asn Ser Tyr Glu Asn Val Leu Ile Cys Lys Gln
 130 135 140
 Lys Thr Thr Glu Thr Gly Ala Gln Gln Glu Gly Ile Gly Gly Leu Cys
 145 150 155 160
 Arg Gly Asp Leu Ser Leu Ser Leu Ala Leu Lys Thr Gly Pro Thr Ser
 165 170 175
 Gly Leu Cys Pro Ser Ala Ser Pro Glu Glu Asp Glu Gly Ile
 180 185 190

<210> 1831
 <211> 142
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any amino acid

<400> 1831
 Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly
 1 5 10 15
 Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala
 20 25 30
 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu
 35 40 45
 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val

50 55 60
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro
 65 70 75 80
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His
 85 90 95
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val
 100 105 110
 Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys
 115 120 125
 Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu
 130 135 140

<210> 1832
 <211> 122
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any amino acid

<400> 1832
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu
 1 5 10 15
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His
 20 25 30
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln
 35 40 45
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser
 50 55 60
 Thr Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser
 65 70 75 80
 Ser Ala Trp Asn Pro Gly Ala Leu Lys Gly Pro Xaa Thr Ala Ala Thr

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<210> 1833
<211> 216
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any amino acid
```

```
<220>
<221> SITE
<222> (18)
<223> Xaa equals any amino acid
```

| <400> 1833 | | | | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Cys | Phe | Pro | Trp | Gly | Xaa | Ala | Leu | Arg | Gln | Lys | Leu | Phe | Pro | Ser | Ala | | |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | | | |
| Leu | Xaa | Ala | Leu | Val | Pro | Ser | Gly | Ala | Gln | Pro | Leu | Pro | Ala | Thr | Lys | | |
| | | | 20 | | | | | 25 | | | | | 30 | | | | |
| Asp | Thr | Val | Leu | Ala | Pro | Leu | Arg | Met | Ser | Gln | Val | Arg | Ser | Leu | Val | | |
| | | 35 | | | | | 40 | | | | | 45 | | | | | |
| Ile | Gly | Leu | Gln | Asn | Leu | Leu | Val | Gln | Lys | Asp | Pro | Leu | Leu | Ser | Gln | | |
| | 50 | | | | | 55 | | | | | 60 | | | | | | |
| Ala | Cys | Val | Gly | Cys | Leu | Glu | Ala | Leu | Leu | Asp | Tyr | Leu | Asp | Ala | Arg | | |
| | 65 | | | | 70 | | | | | 75 | | | | | 80 | | |
| Ser | Pro | Asp | Ile | Ala | Leu | His | Val | Ala | Ser | Gln | Pro | Trp | Asn | Arg | Phe | | |
| | | | | 85 | | | | | 90 | | | | | 95 | | | |
| Leu | Leu | Phe | Thr | Leu | Leu | Asp | Ala | Gly | Glu | Asn | Ser | Phe | Leu | Arg | Pro | | |
| | | | 100 | | | | | 105 | | | | | 110 | | | | |
| Glu | Ile | Leu | Arg | Leu | Met | Thr | Leu | Phe | Met | Arg | Tyr | Arg | Ser | Ser | Ser | | |
| | 115 | | | | | | 120 | | | | | 125 | | | | | |
| Val | Leu | Ser | His | Glu | Glu | Val | Gly | Asp | Val | Leu | Gln | Gly | Val | Ala | Leu | | |
| | 130 | | | | | 135 | | | | | 140 | | | | | | |
| Ala | Asp | Leu | Ser | Thr | Leu | Ser | Asn | Thr | Thr | Leu | Gln | Ala | Leu | His | Gly | | |
| | 145 | | | | 150 | | | | | 155 | | | | | 160 | | |
| Phe | Phe | Gln | Gln | Leu | Gln | Ser | Met | Gly | His | Leu | Ala | Asp | His | Ser | Met | | |
| | | | | 165 | | | | 170 | | | | | | 175 | | | |
| Ala | Gln | Thr | Leu | Gln | Ala | Ser | Leu | Glu | Gly | Leu | Pro | Pro | Ser | Thr | Ser | | |
| | | | 180 | | | | | 185 | | | | | 190 | | | | |

Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly Val Ala
 195 200 205

Val Ser Leu Ser His Ile Arg Asn
 210 215

<210> 1834
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1834
 Met Ala Leu Lys Asn Lys Phe Ser Cys Leu Trp Ile Leu Gly Leu Cys
 1 5 10 15
 Leu Val Ala Thr Thr Ser Ser Lys Ile Pro Ser Ile Thr Asp Pro His
 20 25 30
 Phe Ile Asp Asn Cys Ile Glu Ala His Asn Glu Trp Arg Gly Lys Val
 35 40 45
 Asn Pro Pro Ala Ala Asp Met Lys Tyr Met Ile Trp Asp Lys Gly Leu
 50 55 60
 Ala Lys Met Ala Lys Ala Trp Gly Lys Pro Val Gln Ile
 65 70 75

<210> 1835
 <211> 257
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any amino acid

<400> 1835
 Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro
 1 5 10 15
 Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Xaa Glu Pro Leu Arg Ile
 20 25 30
 Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile
 35 40 45
 Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp
 50 55 60
 Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val
 65 70 75 80
 Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
 85 90 95

Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser
 100 105 110

Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser
 115 120 125

Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly
 130 135 140

Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala
 145 150 155 160

Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val
 165 170 175

Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val
 180 185 190

Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr
 195 200 205

Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly
 210 215 220

Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu
 225 230 235 240

Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser
 245 250 255

Arg

<210> 1836
 <211> 94
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any amino acid

<400> 1836
 Arg Xaa Pro Ile Phe Ile Gly Glu Asn Phe Tyr Pro Pro Val Arg Gly
 1 5 10 15

Arg Val Gly Met Ser Ala Cys Gln Gly Gly Gly Gly Gly Gly Gly
 20 25 30

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 35 40 45

Gly Gly Gly Gly Val Asp Lys Leu Pro Cys Leu Thr Met Cys Trp Cys
 50 55 60

Gly Asn Gly Ala Gln Pro Ala Arg Leu Lys Val Asp Gly Ile Pro Thr
 65 70 75 80

<400> 1838
Asn Leu Xaa Cys Cys Glu Pro Leu Lys Gly Thr Glu Ile Val His Leu
1 5 10 15
Xaa Ser Ser Asp Phe Lys Ala Val Ala Cys Arg Cys Ser Gln Leu Asn

20 25 30
 Lys Ala Leu Pro Ser Thr Thr Leu Arg Gly Phe Val Cys Gly Ser Ser
 35 40 45
 Cys Tyr Ile Ser Trp Phe Pro Asn Gln Glu Thr Arg
 50 55 60

<210> 1839
 <211> 124
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any amino acid

<400> 1839
 Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
 1 5 10 15
 Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
 20 25 30
 Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
 35 40 45
 Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
 50 55 60
 Ser Glu Thr Glu Asp Val Ser Asn Arg Asn Xaa Val Lys Glu Val Glu
 65 70 75 80
 Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
 85 90 95
 Leu Thr Asn Gly Cys Pro Gly Gly Glu Ser Lys Cys Val Val Arg Val
 100 105 110
 Glu Glu Cys Pro Trp Thr Asn Arg Leu Trp Leu Gly
 115 120

<210> 1840
 <211> 113
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any amino acid

<400> 1840

```

Met Pro Arg Cys Arg Trp Leu Ser Leu Ile Leu Leu Thr Ile Pro Leu
  1             5             10             15

Ala Leu Val Ala Arg Lys Asp Pro Lys Lys Asn Glu Thr Gly Val Leu
      20             25             30

Arg Lys Leu Lys Pro Val Asn Ala Phe Xaa Cys Gln Arg Gly Ser Ser
      35             40             45

Val Xaa Gly Phe Ala Met Gln Glu Tyr Asn Lys Glu Ser Glu Asp Lys
      50             55             60

Tyr Val Phe Leu Val Val Lys Thr Leu Gln Ala Gln Leu Gln Val Thr
      65             70             75             80

Asn Leu Leu Glu Tyr Leu Ile Asp Val Glu Ile Ala Arg Ser Asp Cys
      85             90             95

Arg Lys Pro Leu Ser Thr Asn Glu Ile Ala Pro Phe Lys Xaa Thr Pro
      100            105            110

Ser

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<210> 1841
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1841

```

Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
  1             5             10             15

Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser
      20             25             30

Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp
      35             40             45

Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro
      50             55             60

Asn Ser Thr Asn His Val Ala Leu Lys Asp Thr Gly Asn Gln Leu Ile
      65             70             75             80

Val Thr Met Ser Cys Leu Asn Lys Glu Asp Thr Gly Trp Tyr Trp Cys
      85             90             95

Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu
      100            105            110

Ile Val Thr Asp Asp Lys Gly Thr Trp Pro Met Thr Leu Val Trp Glu

```


115 120 125
 Arg Leu Ser Gly Thr Lys Pro Glu Ala Ala Arg Leu Pro Lys Leu Ser
 130 135 140
 Ala Arg Leu Thr Ala Pro Gly Arg Pro Phe Ser Ser Phe Ala Tyr
 145 150 155

<210> 1842
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any amino acid

<400> 1842
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1 5 10 15
 Val Met Asp Glu Lys Val Lys Arg Ser Leu Cys Trp Thr Arg Leu Leu
 20 25 30
 Pro Ser Ala Thr Thr Met Pro Xaa Thr Arg Ile Thr Pro Asn Thr Gly
 35 40 45
 Ala Glu Xaa Ile Ser Val Xaa Thr Ala Thr Ser Ser Pro Ser Pro Leu
 50 55 60
 Thr Ala Pro Ile Met Trp Pro
 65 70

<210> 1843
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 1843
 Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu
 1 5 10 15
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile
 20 25 30
 Leu Leu Ile Leu Asp Leu Glu

35

<210> 1844
<211> 38
<212> PRT
<213> Homo sapiens

<400> 1844
Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly
1 5 10 15
Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu
20 25 30
Leu Ser Leu Leu Asp Cys
35

<210> 1845
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1845
Arg Thr Leu Arg Met Ser Pro Ser Ala Phe Cys Tyr Ser Leu Thr Leu
1 5 10 15
Leu Ala Cys Trp Arg Ala Ala Trp Ile Pro Thr Cys Val Pro Arg Ala
20 25 30
Ala Gly Glu Met Asp Ser Pro Gly Leu Ala Asp Gly His Trp Cys Ser
35 40 45
Gly Ala Ala Arg Arg Ser Pro His Tyr Val Ala Arg Ser Leu Val Leu
50 55 60

<210> 1846
<211> 5
<212> PRT
<213> Homo sapiens

<400> 1846
Ala Gly Thr Trp Ser
1 5

<210> 1847
<211> 170
<212> PRT
<213> Homo sapiens

<400> 1847

```

Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg
 1           5           10           15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp
          20           25           30

Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys
      35           40           45

Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile
 50           55           60

Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr
 65           70           75           80

Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln
          85           90           95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly
      100           105           110

Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
      115           120           125

Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu
 130           135           140

Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His
 145           150           155           160

Ala Val His Pro Thr Gly Thr Lys Ala Leu
          165           170

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<210> 1848

<211> 170

<212> PRT

<213> Homo sapiens

<400> 1848

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Met Ile Leu Thr Met Leu Leu Met Leu Lys Leu Cys Thr Glu Val Arg
 1           5           10           15

Val Ala Asn Glu Leu Asn Ala Arg Arg Arg Ser Phe Thr Asp Phe Asp
          20           25           30

Pro His His Phe Trp Gln Trp Ser Ser Phe Ser Asp Tyr Val Gln Cys
      35           40           45

Val Leu Ala Phe Thr Gly Val Ala Gly Tyr Ile Thr Tyr Leu Ser Ile
 50           55           60

Asp Ser Ala Leu Phe Val Glu Thr Leu Gly Phe Leu Ala Val Leu Thr
 65           70           75           80

Glu Ala Met Leu Gly Val Pro Gln Leu Tyr Arg Asn His Arg His Gln
          85           90           95

Ser Thr Glu Gly Met Ser Ile Lys Met Val Leu Met Trp Thr Ser Gly
      100           105           110

```

Asp Ala Phe Lys Thr Ala Tyr Phe Leu Leu Lys Gly Ala Pro Leu Gln
 115 120 125
 Phe Ser Val Cys Gly Leu Leu Gln Val Leu Val Asp Leu Ala Ile Leu
 130 135 140
 Gly Gln Ala Tyr Ala Phe Ala Arg His Pro Gln Lys Pro Ala Pro His
 145 150 155 160
 Ala Val His Pro Thr Gly Thr Lys Ala Leu
 165 170

<210> 1849
 <211> 60
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any amino acid

<400> 1849
 Met Xaa Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
 1 5 10 15
 Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
 20 25 30
 Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
 35 40 45
 Leu Pro Arg Thr Asn Leu Lys Ala Lys Val Pro Gly
 50 55 60

<210> 1850
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1850
 Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys
 1 5 10 15
 Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser
 20 25 30
 Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu
 35 40 45
 Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu
 50 55 60

<210> 1851

<211> 322
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any amino acid

<400> 1851

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Arg Ala Pro Arg Arg Thr Gly Pro Ala Ser Phe Ser Ser Arg Pro Ala
 1           5           10           15

Gly Thr Cys Ser Asp Asn Arg Val Thr Ser Phe Xaa Asp Leu Ile His
          20           25           30

Asp Gln Asp Glu Asp Glu Glu Glu Glu Gly Gln Arg Phe Tyr Ala
          35           40           45

Gly Gly Ser Glu Arg Ser Gly Gln Gln Ile Val Gly Pro Pro Arg Lys
          50           55           60

Lys Ser Pro Asn Glu Leu Val Asp Asp Leu Phe Lys Gly Ala Lys Glu
          65           70           75           80

His Gly Ala Val Ala Val Glu Arg Val Thr Lys Ser Pro Gly Glu Thr
          85           90           95

Ser Lys Pro Arg Pro Phe Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala
          100          105          110

Pro Glu Glu Glu Ser Ala Tyr Val Ala Gly Glu Lys Arg Gln His Ser
          115          120          125

Ser Gln Asp Val His Val Val Leu Lys Leu Trp Lys Ser Gly Phe Ser
          130          135          140

Leu Asp Asn Gly Glu Leu Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln
          145          150          155          160

Phe Leu Glu Ser Ile Arg Arg Gly Glu Val Pro Ala Glu Leu Arg Arg
          165          170          175

Leu Ala His Gly Gly Gln Val Asn Leu Asp Met Glu Asp His Arg Asp
          180          185          190

Glu Asp Phe Val Lys Pro Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu
          195          200          205

Gly Gln Lys Leu Gly Ser Thr Ala Pro Gln Val Leu Ser Thr Ser Ser
          210          215          220

Pro Ala Gln Gln Ala Glu Asn Glu Ala Lys Ala Ser Ser Ser Ile Leu
          225          230          235          240

Ile Asp Glu Ser Glu Pro Thr Thr Asn Ile Gln Ile Arg Leu Ala Asp
          245          250          255

Gly Gly Arg Leu Val Gln Lys Phe Asn His Ser His Arg Ile Ser Asp
          260          265          270

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Ile Arg Leu Phe Ile Val Asp Ala Arg Pro Ala Met Ala Ala Thr Ser
275 280 285
Phe Ile Leu Met Thr Thr Phe Pro Asn Lys Glu Leu Ala Asp Glu Ser
290 295 300
Gln Thr Leu Lys Glu Ala Asn Leu Leu Asn Ala Val Ile Val Gln Arg
305 310 315 320
Leu Thr

<210> 1852
<211> 13
<212> PRT
<213> Homo sapiens

<400> 1852
Ser Cys Ile Ser Trp Val Phe Val Met Ile Asn Gly Leu
1 5 10

<210> 1853
<211> 240
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (67)
<223> Xaa equals any amino acid

<400> 1853
Gly Glu Gly Asp Asp Lys Glu Glu Ser Val Glu Lys Leu Asp Cys His
1 5 10 15
Tyr Ser Gly His His Pro Gln Pro Ala Ser Phe Cys Thr Phe Gly Ser
20 25 30
Arg Gln Ile Gly Arg Gly Tyr Tyr Val Phe Asp Ser Arg Trp Asn Arg
35 40 45
Leu Arg Cys Ala Leu Asn Leu Met Val Glu Lys His Leu Asn Ala Gln
50 55 60
Leu Trp Xaa Lys Ile Pro Pro Val Pro Ser Thr Thr Ser Pro Ile Ser
65 70 75 80
Thr Arg Ile Pro His Arg Thr Asn Ser Val Pro Thr Ser Gln Cys Gly
85 90 95
Val Ser Tyr Leu Ala Ala Ala Thr Val Ser Thr Ser Pro Val Leu Leu
100 105 110
Ser Ser Thr Cys Ile Ser Pro Asn Ser Lys Ser Val Pro Ala His Gly
115 120 125
Thr Thr Leu Asn Ala Gln Pro Ala Ala Ser Gly Ala Met Asp Pro Val

| 130 | 135 | 140 |
|---|-----|-------------|
| Cys Ser Met Gln Ser Arg Gln Val Ser Ser Ser Ser Ser Ser Pro Ser | | |
| 145 | 150 | 155 160 |
| Thr Pro Ser Gly Leu Ser Ser Val Pro Ser Ser Pro Met Ser Arg Lys | | |
| | 165 | 170 175 |
| Pro Gln Lys Leu Lys Ser Ser Lys Ser Leu Arg Pro Lys Glu Ser Ser | | |
| | 180 | 185 190 |
| Gly Asn Ser Thr Asn Cys Gln Asn Ala Ser Ser Ser Thr Ser Gly Gly | | |
| | 195 | 200 205 |
| Ser Gly Lys Lys Arg Lys Asn Ser Ser Pro Leu Leu Val His Ser Ser | | |
| | 210 | 215 220 |
| Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser His Ser Met Gly Val Phe | | |
| | 225 | 230 235 240 |

<210> 1854

<211> 362

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (307)

<223> Xaa equals any amino acid

<400> 1854

| | | |
|---|-----|----------|
| Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro | | |
| 1 | 5 | 10 15 |
| Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys | | |
| | 20 | 25 30 |
| Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg | | |
| | 35 | 40 45 |
| Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His | | |
| | 50 | 55 60 |
| Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp | | |
| | 65 | 70 75 80 |
| Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr | | |
| | 85 | 90 95 |
| Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln | | |
| | 100 | 105 110 |
| Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp | | |
| | 115 | 120 125 |
| Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu | | |

130 135 140
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
 145 150 155 160
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
 165 170 175
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
 180 185 190
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly
 195 200 205
 Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
 210 215 220
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro
 225 230 235 240
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro
 245 250 255
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly
 260 265 270
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala
 275 280 285
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp
 290 295 300
 Ser Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly
 305 310 315 320
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu
 325 330 335
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly
 340 345 350
 Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu
 355 360

<210> 1855

<211> 415

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (338)

<223> Xaa equals any amino acid

<400> 1855

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
 1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 20 | | | | | 25 | | | | | 30 | | | | | |
| Thr | Leu | Leu | Glu | Lys | Ser | Gln | Phe | Ser | Asp | Lys | Pro | Val | Gln | Asp | Arg |
| 35 | | | | | | 40 | | | | | | 45 | | | |
| Gly | Leu | Val | Val | Thr | Asp | Leu | Lys | Ala | Glu | Ser | Val | Val | Leu | Glu | His |
| 50 | | | | | | 55 | | | 60 | | | | | | |
| Arg | Ser | Tyr | Cys | Ser | Ala | Lys | Ala | Arg | Asp | Arg | His | Phe | Ala | Gly | Asp |
| 65 | | | 70 | | | 75 | | | 80 | | | | | | |
| Val | Leu | Gly | Tyr | Val | Thr | Pro | Trp | Asn | Ser | His | Gly | Tyr | Asp | Val | Thr |
| | | | 85 | | | 90 | | | 95 | | | | | | |
| Lys | Val | Phe | Gly | Ser | Lys | Phe | Thr | Gln | Ile | Ser | Pro | Val | Trp | Leu | Gln |
| | | | 100 | | | 105 | | | 110 | | | | | | |
| Leu | Lys | Arg | Arg | Gly | Arg | Glu | Met | Phe | Glu | Val | Thr | Gly | Leu | His | Asp |
| 115 | | | 120 | | | 125 | | | 130 | | | 135 | | | |
| Val | Asp | Gln | Gly | Trp | Met | Arg | Ala | Val | Arg | Lys | His | Ala | Lys | Gly | Leu |
| 140 | | | 145 | | | 150 | | | 155 | | | 160 | | | |
| His | Ile | Val | Pro | Arg | Leu | Leu | Phe | Glu | Asp | Trp | Thr | Tyr | Asp | Asp | Phe |
| 165 | | | 170 | | | 175 | | | 180 | | | 185 | | | |
| Arg | Asn | Val | Leu | Asp | Ser | Glu | Asp | Glu | Ile | Glu | Glu | Leu | Ser | Lys | Thr |
| 190 | | | 195 | | | 200 | | | 205 | | | 210 | | | |
| Val | Val | Gln | Val | Ala | Lys | Asn | Gln | His | Phe | Asp | Gly | Phe | Val | Val | Glu |
| 215 | | | 220 | | | 225 | | | 230 | | | 235 | | | |
| Val | Trp | Asn | Gln | Leu | Leu | Ser | Gln | Lys | Arg | Val | Gly | Leu | Ile | His | Met |
| 240 | | | 245 | | | 250 | | | 255 | | | 260 | | | |
| Leu | Thr | His | Leu | Ala | Glu | Ala | Leu | His | Gln | Ala | Arg | Leu | Leu | Ala | Leu |
| 265 | | | 270 | | | 275 | | | 280 | | | 285 | | | |
| Leu | Val | Ile | Pro | Pro | Ala | Ile | Thr | Pro | Gly | Thr | Asp | Gln | Leu | Gly | Met |
| 290 | | | 295 | | | 300 | | | 305 | | | 310 | | | |
| Phe | Thr | His | Lys | Glu | Phe | Glu | Gln | Leu | Ala | Pro | Val | Leu | Asp | Gly | Phe |
| 315 | | | 320 | | | 325 | | | 330 | | | 335 | | | |
| Ser | Leu | Met | Thr | Tyr | Asp | Tyr | Ser | Thr | Ala | His | Gln | Pro | Gly | Pro | Asn |
| 340 | | | 345 | | | 350 | | | 355 | | | 360 | | | |
| Ala | Pro | Leu | Ser | Trp | Val | Arg | Ala | Cys | Val | Gln | Val | Leu | Asp | Pro | Lys |
| 365 | | | 370 | | | 375 | | | 380 | | | 385 | | | |
| Ser | Lys | Trp | Arg | Ser | Lys | Ile | Leu | Leu | Gly | Leu | Asn | Phe | Tyr | Gly | Met |
| 390 | | | 395 | | | 400 | | | 405 | | | 410 | | | |
| Asp | Tyr | Ala | Thr | Ser | Lys | Asp | Ala | Arg | Glu | Pro | Val | Val | Gly | Ala | Arg |
| 415 | | | 420 | | | 425 | | | 430 | | | 435 | | | |
| Tyr | Ile | Gln | Thr | Leu | Lys | Asp | His | Arg | Pro | Arg | Met | Val | Trp | Asp | Ser |
| 440 | | | 445 | | | 450 | | | 455 | | | 460 | | | |
| Gln | Xaa | Ser | Glu | His | Phe | Phe | Glu | Tyr | Lys | Lys | Ser | Arg | Ser | Gly | Arg |
| 465 | | | 470 | | | 475 | | | 480 | | | 485 | | | |

His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu
 355 360 365

Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Ala Arg
 370 375 380

Ala Trp Thr Thr Ser Thr Thr Cys Ser Arg Trp Ala Leu Arg Pro Pro
 385 390 395 400

Arg Trp Thr Cys Ser Phe Leu Ser His Gly Val Ser Glu Gln Val
 405 410 415

<210> 1856

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (236)

<223> Xaa equals any amino acid

<400> 1856

Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser
 1 5 10 15

Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val
 20 25 30

Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala
 35 40 45

Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val
 50 55 60

His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln
 65 70 75 80

Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg
 85 90 95

Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr
 100 105 110

Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu
 115 120 125

Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Thr Gly
 130 135 140

Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe
 145 150 155 160

Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser
 165 170 175
 Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu
 180 185 190
 Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met
 195 200 205
 Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly
 210 215 220
 Asp Thr Phe Phe Glu Pro Ile Ser Trp Xaa Leu Xaa Thr Lys Val Leu
 225 230 235 240
 Gly Ile Leu Cys Cys Gly Leu Phe Phe Gly Ile Val Gly Leu Lys Ile
 245 250 255
 Phe Phe Ser Lys Phe Gln Trp Lys Ile Gln Ala Glu Leu Asp Trp Arg
 260 265 270
 Arg Lys His Gly Gln Ala Glu Leu Arg Asp Ala Arg Lys His Ala Val
 275 280 285
 Glu Val Thr Leu Asp Pro Glu Thr Ala His Pro Lys Leu Cys Val Ser
 290 295 300
 Asp Leu Lys Thr Val Thr His Arg Lys Ala Pro Gln Glu Val Pro His
 305 310 315 320
 Ser Glu Lys Arg Phe Thr Arg Lys Ser Val Val Ala Ser Gln Ser Phe
 325 330 335
 Gln Ala Gly Lys His Tyr Trp Glu Val Asp Gly Gly His Asn Lys Arg
 340 345 350,
 Trp Arg Val Gly Val Cys Arg Asp Asp Val Asp Arg Arg Lys Glu Tyr
 355 360 365
 Val Thr Leu Ser Pro Asp His Gly Tyr Trp Val Leu Arg Leu Asn Gly
 370 375 380
 Glu His Leu Tyr Phe Thr Leu Asn Pro Arg Phe Ile Ser Val Phe Pro
 385 390 395 400
 Arg Thr Pro Pro Thr Lys Ile Gly Val Phe Leu Asp Tyr Glu Cys Gly
 405 410 415
 Thr Ile Ser Phe Phe Asn Ile Asn Asp Gln Ser Leu Ile Tyr Thr Leu
 420 425 430
 Thr Cys Arg Phe Glu Gly Leu Leu Arg Pro Tyr Ile Glu Tyr Pro Ser
 435 440 445
 Tyr Asn Glu Gln Asn Gly Thr Pro Arg Asp Lys Gln Gln
 450 455 460

<210> 1857

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1857

Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala
 1 5 10 15
 Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val
 20 25 30
 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp
 35 40 45
 Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln
 50 55 60
 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala
 65 70 75 80
 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala
 85 90 95
 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu
 100 105 110

<210> 1858

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1858

Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
 1 5 10 15
 Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
 20 25 30
 Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
 35 40 45
 Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
 50 55 60
 Arg Leu Pro Val Ala Leu Ser Phe Ser Met Gly Leu Gly Leu Leu Ser
 65 70 75 80
 Pro Ala Leu Gly Arg Phe Leu Ala Ser Glu Leu
 85 90

<210> 1859

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1859

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
 20 25 30
 Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45
 Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
 50 55 60
 Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65 70 75

<210> 1860

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1860

Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser
 1 5 10 15
 Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser
 20 25 30
 His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Ser Phe Thr Tyr
 35 40 45
 Pro Gly Lys Gln Val Trp
 50

<210> 1861

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1861

Met Ser Gln Ala Trp Val Pro Gly Leu Ala Pro Thr Leu Leu Phe Ser
 1 5 10 15
 Leu Leu Ala Gly Pro Gln Lys Ile Ala Ala Lys Cys Gly Leu Ile Leu
 20 25 30
 Ala Cys Pro Lys Gly Phe Lys Cys Cys Gly Asp Ser Cys Cys Gln Glu
 35 40 45
 Asn Glu Leu Phe Pro Gly Pro Val Arg Ile Phe Val Ile Ile Phe Leu
 50 55 60
 Val Ile Leu Ser Val Phe Cys Ile Cys Gly Leu Ala Lys Cys Phe Cys
 65 70 75 80
 Arg Asn Cys Arg Glu Pro Glu Pro Asp Ser Pro Val Asp Cys Arg Gly
 85 90 95
 Pro Leu Glu Leu Pro Ser Ile Ile Pro Pro Glu Arg Val Ile Leu Lys
 100 105 110

Pro Ser Leu Gly Pro Thr Pro Thr Glu Pro Pro Pro Tyr Ser Phe
 115 120 125
 Arg Pro Glu Glu Tyr Thr Gly Asp Gln Arg Gly Ile Asp Asn Pro Ala
 130 135 140
 Phe
 145

<210> 1862
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1862
 Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp
 1 5 10 15
 Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe
 20 25 30
 Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg
 35 40 45
 Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile
 50 55 60
 Pro Ser Phe Tyr
 65

<210> 1863
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1863
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
 65 70 75 80
 Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
 85 90 95
 Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
 100 105 110

Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu
 115 120 125

Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln
 130 135 140

<210> 1864

<211> 119

<212> PRT

<213> Homo sapiens

<400> 1864

Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15

Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45

Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60

Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
 65 70 75 80

Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
 85 90 95

Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
 100 105 110

Gly Glu Glu Arg Pro Arg Leu
 115

<210> 1865

<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (115)

<223> Xaa equals any amino acid

<400> 1865

Met Arg Leu Arg Val Arg Leu Leu Lys Arg Thr Trp Pro Leu Glu Val
 1 5 10 15

Pro Glu Thr Glu Pro Thr Leu Gly His Leu Arg Ser His Leu Arg Gln
 20 25 30

Ser Leu Leu Cys Thr Trp Gly Tyr Ser Ser Asn Thr Arg Phe Thr Ile
 35 40 45

Thr Leu Asn Tyr Lys Asp Pro Leu Thr Gly Asp Glu Glu Thr Leu Ala
 50 55 60
 Ser Tyr Gly Ile Val Ser Gly Asp Leu Ile Cys Leu Ile Leu Gln Asp
 65 70 75 80
 Asp Ile Pro Ala Pro Asn Ile Pro Ser Ser Thr Asp Ser Glu His Ser
 85 90 95
 Ser Leu Gln Asn Asn Glu Gln Pro Ser Leu Ala Thr Ser Ser Asn Gln
 100 105 110
 Thr Ser Xaa Gln Asp Glu Gln Pro Ser Asp Ser Phe Gln Gly Gln Ala
 115 120 125
 Ala Gln Ser Gly Val Trp Asn Asp Asp Ser Met Leu Gly Pro Ser Gln
 130 135 140
 Asn Phe Glu Ala Glu Ser Ile Gln Asp Asn Ala His Met Ala Glu Gly
 145 150 155 160
 Thr Gly Phe Tyr Pro Ser Glu Pro Met Leu Cys Ser Glu Ser Val Glu
 165 170 175
 Gly Gln Val Pro His Ser Leu Glu Thr Leu Tyr Gln Ser Ala Asp Cys
 180 185 190
 Ser Asp Ala Asn Asp Ala Leu Ile Val Leu Ile His Leu Leu Met Leu
 195 200 205
 Glu Ser Gly Tyr Ile Pro Gln Gly Thr Glu Ala Lys Ala Leu Ser Met
 210 215 220
 Pro Glu Lys Trp Lys Leu Ser Gly Val Tyr Lys Leu Gln Tyr Met His
 225 230 235 240
 Pro Leu Cys Glu Gly Ser Ser Ala Thr Leu Thr Cys Val Pro Leu Gly
 245 250 255
 Asn Leu Ile Val Val Asn Ala Leu Asn Leu Pro Asp Val Phe Gly Leu
 260 265 270
 Val Val Leu Pro Leu Glu Leu Lys Leu Arg Ile Phe Arg Leu Leu Asp
 275 280 285
 Val Arg Ser Val Leu Ser Leu Ser Ala Val Cys Arg Asp Leu Phe Thr
 290 295 300
 Ala Ser Asn Asp Pro Leu Leu Trp Arg Phe Leu Tyr Leu Arg Asp Phe
 305 310 315 320
 Arg Asp Asn Thr Val Arg Val Gln Asp Thr Asp Trp Lys Glu Leu Tyr
 325 330 335
 Arg Lys Arg His Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val
 340 345 350
 Met Leu Leu Pro Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro
 355 360 365
 Leu His Pro Arg Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile

370 375 380
 Gly Gly Glu Tyr Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro
 385 390 395 400
 Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro
 405 410 415
 Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn
 420 425 430
 Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg
 435 440 445
 Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met
 450 455 460

<210> 1866
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 1866
 Met Phe Val Pro Ser Cys Leu Cys Leu Arg Phe Val Val Thr Ser Leu
 1 5 10 15
 Leu Leu Gln Met Thr His Ser Cys Gly Gly Phe Tyr Ile Cys Val Ile
 20 25 30
 Phe Glu Thr Ile Leu Ser Glu Phe Lys Thr Gln Ile Gly Arg Leu Tyr
 35 40 45
 Arg Lys Arg His Ile Gln Arg Lys Glu Ser Pro Lys Gly Arg Phe Val
 50 55 60
 Met Leu Leu Pro Ser Ser Thr His Thr Ile Pro Phe Tyr Pro Asn Pro
 65 70 75 80
 Leu His Pro Arg Pro Phe Pro Ser Ser Arg Leu Pro Pro Gly Ile Ile
 85 90 95
 Gly Gly Glu Tyr Asp Gln Arg Pro Thr Leu Pro Tyr Val Gly Asp Pro
 100 105 110
 Ile Ser Ser Leu Ile Pro Gly Pro Gly Glu Thr Pro Ser Gln Phe Pro
 115 120 125
 Pro Leu Arg Pro Arg Phe Asp Pro Val Gly Pro Leu Pro Gly Pro Asn
 130 135 140
 Pro Ile Leu Pro Gly Arg Gly Gly Pro Asn Asp Arg Phe Pro Phe Arg
 145 150 155 160
 Pro Ser Arg Gly Arg Pro Thr Asp Gly Arg Leu Ser Phe Met
 165 170

<210> 1867

<211> 164
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (76)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any amino acid

<400> 1867

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Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro
 1           5           10           15
Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val
          20           25           30
Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe
      35           40           45
Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala
      50           55           60
Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Xaa Arg Leu Cys Trp
 65           70           75           80
Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln
          85           90           95
Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Xaa
      100           105           110
Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg
      115           120           125
His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr
      130           135           140
Val Xaa Ala Tyr Thr Ala Gly Pro Tyr Val Cys Phe Phe Asn Pro Ala
      145           150           155           160
Leu Ala Ala Leu

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<210> 1868
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1868

Met Val Thr Phe Ile Asn Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1 5 10 15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30

Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Phe Gln
 35 40 45

Thr Ala Trp Pro Ala
 50

<210> 1869

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (39)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (44)

<223> Xaa equals any amino acid

<220>

<221> SITE

<222> (71)

<223> Xaa equals any amino acid

<400> 1869

Met Val Thr Phe Ile Xaa Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1 5 10 15

Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
 20 25 30

Asp Val Ile Met Gly Ile Xaa Phe Leu Ala Ala Xaa Thr Ser Val Pro
 35 40 45

Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Gly Leu Gly Asp Met
 50 55 60

Ala Val Ser Asn Thr Ile Xaa Ser Asn Val Phe Asp Ile Leu Val Gly
 65 70 75 80

Leu Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser
 85 90 95

Thr Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu
 100 105 110

Leu Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp
 115 120 125
 Arg Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile
 130 135 140
 Phe Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val
 145 150 155 160
 Asn Leu Pro Met Cys Arg Glu Asp Asp
 165

<210> 1870
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any amino acid

<400> 1870
 Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
 1 5 10 15
 Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
 20 25 30
 Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
 35 40 45
 Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
 50 55 60
 Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val
 65 70 75 80
 Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Lys Arg Arg Thr Phe His
 85 90 95
 Phe Ser Ser Thr Xaa
 100

<210> 1871
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1871
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1 5 10 15
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
 20 25 30

Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
 35 40 45
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
 50 55 60
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
 65 70 75 80
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
 85 90 95
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
 100 105 110
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
 115 120 125
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
 130 135 140
 Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
 145 150 155 160
 Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
 165 170 175
 Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
 180 185

<210> 1872

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any amino acid

<400> 1872

Met Ser Gly Leu Ala Ala Ala His Val Phe Arg Val Cys Leu Phe
 1 5 10 15
 Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser
 20 25 30
 Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys
 35 40 45
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala
 50 55 60
 Phe Pro Ile Ser Xaa Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser
 65 70 75 80
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr
 85 90 95

Ser Phe Ser Val Pro Cys Arg Val Lys
 100 105

<210> 1873
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1873
 Met Gly Ser Phe Leu His Pro Gln Trp His Leu Leu Ile Thr Phe Cys
 1 5 10 15
 Ala Val Leu Gly Lys Gly Leu His Ser Asp Pro Ser Arg Pro Phe Glu
 20 25 30
 His Gly Gly Ala Leu Gly Lys Val Pro Arg Gly Arg Ser Thr Leu Leu
 35 40 45
 Ser Lys Glu Val Leu Leu Lys Lys Lys Lys Lys Lys Arg
 50 55 60

<210> 1874
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 1874
 Leu Pro Trp Leu Pro Phe Phe Phe Ser Cys Leu Val Ser Thr Leu Pro
 1 5 10 15
 Ser Met Ser Val Ser Ala Phe Ser Leu Val Val Arg Gly Arg Arg Ala
 20 25 30
 Phe Thr Ser Val Arg
 35

<210> 1875
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 1875
 Pro Leu Cys Leu Ala Leu Glu Leu Gly Trp Val Cys Leu Ser Ser Thr
 1 5 10 15

<210> 1876
 <211> 117
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals any amino acid

<400> 1876

Met Leu Leu Trp Trp Gln Cys Leu Cys Cys His Ala Val Leu Glu Pro
 1 5 10 15

Ala Ala Thr Ala Met Pro Glu Asp Ala Ala Pro Ser Ser Leu Pro Val
 20 25 30

Pro Pro Asn Met Thr Ser Ser Arg Phe His Tyr Phe Trp Thr Leu Leu
 35 40 45

Gln Ile Lys Leu Thr Gln Phe Tyr Ser Lys Pro Arg Ser Leu Ser Ala
 50 55 60

Thr Pro Glu Lys Asn Ile Gly Leu Gln Glu Pro Glu Arg Arg Glu Arg
 65 70 75 80

Phe Thr Gly Glu Ser Cys Arg Trp Glu Leu Lys Ala Lys Ser Cys Leu
 85 90 95

Cys Pro Thr Arg Asn Ser Leu Gly Cys Thr Gln Cys His Cys Asp Gly
 100 105 110

Xaa Lys Ile Cys Asn
 115

<210> 1877

<211> 40

<212> PRT

<213> Homo sapiens

<400> 1877

Met Arg Arg Gln Thr Phe Met Ser Ile Leu Val Phe Gln Cys Ser Pro
 1 5 10 15

Ile Ser Phe Gly Leu Cys Ile Asn Lys Glu Arg Thr Val Val Ser Ser
 20 25 30

Val Ile Thr Asp Asn Leu Cys Leu
 35 40

<210> 1878

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1878

Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Cys
 1 5 10 15

Leu Ala Val Thr Arg Pro Phe Leu Ala Pro Arg Cys Ala Ala Arg Pro
 20 25 30

Trp Pro Ala Ala Cys Cys Trp Arg Ser Gly Trp Pro Pro Cys Cys Ser
 35 40 45
 Pro Ser Arg Pro Pro Ser Thr Ala Thr Cys Gly Gly Thr Ala Tyr Ala
 50 55 60
 Ser Cys Ala Thr Arg Arg Arg Ser Thr Pro Pro Pro Thr
 65 70 75

<210> 1879
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1879
 Met Leu Ala Val Leu Ala Phe Pro Val Gly Val Phe Val Val Ala Val
 1 5 10 15
 Phe Trp Ile Ile Tyr Ala Tyr Asp Arg Glu Met Ile Tyr Pro Lys Leu
 20 25 30
 Leu Asp Asn Phe Ile Pro Gly Trp Leu Asn His Gly Met His Thr Thr
 35 40 45
 Val Leu Pro Phe Ile Leu Ile Glu Met Arg Thr Ser His His Gln Tyr
 50 55 60
 Pro Ser Arg Ser Ser Gly Leu Thr Ala Ile Cys Thr Phe Ser Val Gly
 65 70 75 80
 Tyr Ile Leu Trp Val Cys Trp Val His His Val Thr Gly Met Trp Val
 85 90 95
 Tyr Pro Phe Leu Glu His Ile Gly Pro Gly Ala Arg Ile Ile Phe Phe
 100 105 110
 Gly Ser Thr Thr Ile Leu Met Asn Phe Leu Tyr Leu Leu Gly Glu Val
 115 120 125
 Leu Asn Asn Tyr Ile Trp Asp Thr Gln Lys Ser Met Glu Glu Glu Lys
 130 135 140
 Glu Lys Pro Lys Leu Glu
 145 150

<210> 1880
 <211> 102
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any amino acid

<400> 1880
 Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe Asn Met Ile Leu

1 5 10 15
 Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe Val Trp Ala Ala
 20 25 30
 His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg Tyr Pro Thr Thr
 35 40 45
 Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu Ile Ser Met Phe
 50 55 60
 Gly Gly Val Met Val Xaa Val Phe Gly Ile Thr Phe Pro Leu Leu Leu
 65 70 75 80
 Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu Lys Asn Lys Leu
 85 90 95
 Glu Asn Lys Met Glu Gly
 100

<210> 1881
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 1881
 Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro
 1 5 10 15
 Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp
 20 25 30
 Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu
 35 40 45
 Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe
 50 55 60
 Asn Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe
 65 70 75 80
 Val Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg
 85 90 95
 Tyr Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu
 100 105 110
 Ile Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe
 115 120 125
 Pro Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu
 130 135 140
 Lys Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr
 145 150 155 160
 Pro Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile
 165 170 175

Asn Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu
 180 185

<210> 1882
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 1882
 Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met
 1 5 10 15
 Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile
 20 25 30
 Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe
 35 40 45

<210> 1883
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any amino acid

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any amino acid

<400> 1883
 Xaa Tyr Xaa Ser Cys Arg Lys Xaa Tyr Leu Thr Tyr Gly Xaa Asn Ser
 1 5 10 15
 Arg Val Asp Pro Arg Val Arg His Val Cys Gly Val Arg Ala His Gly
 20 25 30
 Ala Gly Val Pro His Leu Val Ser Gly Gly Asp Glu Val Ser Pro Gly
 35 40 45
 Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu Gln Pro Val His Gln
 50 55 60
 Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln Arg Val Phe Leu Cys

65 70 75 80
 Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His Leu Ser Gly Gly Val
 85 90 95
 Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro Leu Ala Arg Pro Gly
 100 105 110
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 115 120 125
 Val Gln Pro Leu Met Ala Arg Arg
 130 135

<210> 1884
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 1884
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 Arg Phe Leu Arg Leu His Arg Ala Pro Arg Val Pro His Val Cys Gly
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 Val Arg Ala His Gly Ala Gly Val Pro His Leu Val Ser Gly Gly Asp
 35 40 45
 Glu Val Ser Pro Gly Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu
 50 55 60
 Gln Pro Val His Gln Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln
 65 70 75 80
 Arg Val Phe Leu Cys Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His
 85 90 95
 Leu Ser Gly Gly Val Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro
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 130 135 140

<210> 1885
 <211> 839
 <212> DNA
 <213> Homo sapiens

<400> 1885
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| | | | | | | |
|-------------|------------|------------|-------------|------------|-------------|-----|
| ggaagcacct | acctgggcac | agagatcatc | gctcgggtgcc | tcgcccctac | acaagggcga | 300 |
| ttaactttctc | tggtatgaac | tcctacttag | taattctgac | atgaaactcc | cactaggata | 360 |
| aaacttggcg | cagaacagca | attactgaaa | acacattttt | aaaaaggttg | atgttttgta | 420 |
| agagttcatc | ctcctccact | cctcagcctc | cctcaaggag | acacatattt | agatcttctc | 480 |
| tgtgtgagtc | taacttggag | actgtgagtt | gcagtttaaa | aggggctctg | gggccagggtg | 540 |
| cgggtggcaca | cacttgtggt | ctcagctact | caagaggctg | agatgtgagg | aacgcttgag | 600 |
| cccaggagtt | caagaccagc | ctgagcaaca | tagggagatg | ggatctaccc | aaaacactta | 660 |
| acaataaggc | tggcatggtg | gcatatgcct | gtggtcccag | ctacttggag | gctgaggcag | 720 |
| gagaatcatt | taagcctggg | agatcgaggc | tgcatgagg | tatggtttca | actgctgtgc | 780 |
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<210> 1886

<211> 839

<212> DNA

<213> Homo sapiens

<400> 1886

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| cctttccccc | gtggtgtgtg | gctatagcgg | ggacatgaag | ggggtgtgtt | ggggacgtag | 120 |
| tgaccactcc | cttctaccat | cagagatcct | gcttccccct | gccccctgcc | cctcctcggc | 180 |
| tgccttcat | aacccccac | ccactcccca | cctgccatct | cctgtgcttg | tgtggatcca | 240 |
| ggaagcacct | acctgggtac | agagatcatt | gctcgggtgcc | tcgcccctac | acaagggcga | 300 |
| ttaacttgtc | tggtatgaac | tcctacttag | taattccgac | atgaaactcc | cactaggata | 360 |
| aaacttggcg | cagaacagca | attactgaaa | acacattttt | aaaaaggttg | acgttttgta | 420 |
| agagttcatc | ctcctccact | cctcagcctc | cctcaaggag | acacatattt | agatcttctc | 480 |
| tctgtgagtc | taacttggag | actgtgagtt | gcagtttaaa | aggggctctg | gggccagggtg | 540 |
| cgggtggcaca | cacttgtggt | ctcagctact | caagaggccg | agatgtgagg | aacgcttgag | 600 |
| cccaggagtt | caagaccagc | ctgagcaaca | tagggagatg | ggatctacca | aaaacattta | 660 |
| acaataaggc | tggcatggtg | gcatatgcct | gtggtcccag | ctacttggag | gctgaggcag | 720 |
| gagaatcatt | taagcctggg | agatcgaggc | tgcatgagg | tatggtttca | actgctgtgc | 780 |
| tccagcctgg | gagacagggc | aatactctgt | ctctaaaaaa | taaaaataa | aaataaaaa | 839 |

<210> 1887

<211> 837

<212> DNA

<213> Homo sapiens

<400> 1887

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| cctttccccc | gtggtgtgtg | gctatagcgg | ggacatgaag | ggggtgtgtt | ggggacgtag | 120 |
| tgaccactcc | cttctaccgt | cagagatcct | gcttccccct | gccccctgcc | cctcctcggc | 180 |
| tgccttcat | aacccccac | ccactcccca | cctgccatct | cctgtgcttg | tcgggatcca | 240 |
| ggaagcacct | acctgggcac | agagatcatc | gctcgggtgcc | tcgcccctac | acaagggcga | 300 |
| ttaacttctc | tggtatgaac | tcctacttag | taattctgac | atgaaactcc | cactaggata | 360 |
| aaacttggcg | cagaacagca | attactgaaa | acacattttt | aaaaaggttg | atgttttgta | 420 |
| agagttcatc | ctcctccact | cctcagcctc | cctcaaggag | acacatattt | agatcttctc | 480 |
| tgtgtgagtc | taacttggag | actgtgagtt | gcagtttaaa | aggggctctg | gggccagggtg | 540 |
| cgggtggcaca | cacttgtggt | ctcagctact | caagaggctg | agatgtgagg | aacgcttgag | 600 |
| cccaggagtt | caagaccagc | ctgagcaaca | tagggagatg | ggatctaccc | aaaacattta | 660 |
| acaataaggc | tggcatggtg | gcatatgcct | gtggtcccag | ctacttggag | gctgaggcag | 720 |
| gagaatcatt | taagcctggg | agatcgaggc | tgcatgagg | tatggtttca | actgctgtgc | 780 |
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<210> 1888

<211> 836

<212> DNA

<213> Homo sapiens

<400> 1888

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| cttccccctg | ggtgtgtggc | tatagcgggg | acatgaaggg | ggtgtgttgg | ggatgtagtg | 120 |

| | | | | | | |
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| cccttcataa | ccccccaccc | actccccacc | tgccatctcc | tgtgcttggt | tggtaccagg | 240 |
| aagcacctac | ctgggtacag | agatcattgc | tcggtgcctc | gcccttacac | aaggggcgatt | 300 |
| aacttgctcg | ttatgactcc | tacttagtaa | ttccgacatg | aaactcccac | taggataaaa | 360 |
| cttgggcgag | aacagcaatt | actgaaaaca | cattttttaa | aagggtgacg | ttttgtaaga | 420 |
| gttcatectc | ctccactcct | cagcctccct | caaggagaca | catatttaga | tcttctctct | 480 |
| gtgagtctaa | cttgagact | gtgagttgca | gtttaaaagg | ggctctgggg | ccagggtgcgg | 540 |
| tgccacacac | tttgtgtctc | agctactcaa | gaggccgaga | tgtgaggaaac | gcttgagccc | 600 |
| aggagttcaa | gaccagcctg | agcaacatag | ggagatggga | tctacccaaa | acatttaaca | 660 |
| ataaggctgg | catgggtggc | tatgcctgtg | gtcccagcta | cttgagggct | gaggcaggag | 720 |
| aatcatttaa | gcctgggaga | tcgaggctgc | agtgagggtat | ggtttcaact | gctgtgctcc | 780 |
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<210> 1889

<211> 4269

<212> DNA

<213> Homo sapiens

<400> 1889

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| gagatgaggt | catttggttag | aggccagaca | gcctcctcag | cccatttcta | aggttggttc | 120 |
| tgtggtattt | gccataaagc | cataggttca | ttgatttggt | cttaagtagt | tctgagccct | 180 |
| tcctgcatac | caggcaggga | caaacaggaa | agtccttgcc | tttggaaggt | gcgggggaaa | 240 |
| tgaatgatt | ctgtcagcc | tcaccattg | gtctgaacaa | tcacgtctca | tgaccgcagg | 300 |
| gacacggctt | cccctgaacg | cggatcctag | aggccaggca | gaagcagcat | gggtttccac | 360 |
| tcacacggtg | ggcggtctgt | caatttcgtc | tggagtcccc | agaccctccc | tcacctctcc | 420 |
| cagggttgct | ctgaggccat | tccttgctcat | ctaggagggg | tctacataaa | agcatttata | 480 |
| aacacctcca | aatgggagcc | aggcgtgccc | acctttggag | cacttttctc | tactgcaaat | 540 |
| ttatctactg | ctcgtgaaat | ctctggattt | aactctgatg | aaagactgga | ggctgaagga | 600 |
| gaacttcaat | atcatatatt | ttaaagggtg | attcacagtt | tggagcaaga | attaaagaac | 660 |
| cacgaacttc | aaggtaaaac | gggcaacggc | gttggggcaa | gcctctctgc | atctgcgtgt | 720 |
| ccagcctctc | ctgcgtgcc | gaagttccca | ggcaggagtg | tgggtgggaca | tccggctggg | 780 |
| gtaaggacag | gcaccctccc | actgtgtcag | ggcccagaga | gtgggtggag | aagctctgca | 840 |
| agagacctgt | gcaagggcgc | cttgacagg | cctgcagtcc | ccacaggtgt | gtttgtggat | 900 |
| aacacttggg | gagccctggc | cttttgggg | cacggagggc | ttggcctctc | acctcagagc | 960 |
| tgcagagaag | ccgcttctac | atcaggacat | cagaagctgg | aacaggatgg | ccggcgaggg | 1020 |
| gcctcttggt | ggggtcacag | agatgggtcg | cagagatggc | ccgtgtggaa | ggttggattc | 1080 |
| tcaccccacc | tctgccccta | gatgtcctgg | tgaccctccc | ctctgtagtc | ttggtttttt | 1140 |
| gcaaaacagt | tatgacctcc | tgccatactg | ggtactttgc | ttatgtattg | tgtttactct | 1200 |
| ttactgtgtg | tctctcctgc | taaggctctac | gaagaagggt | ctttgtgggt | ggggttctta | 1260 |
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| ttattatttt | ttctttttga | gatggagtct | cgctctcttg | accaggctgg | agtacagtgg | 1380 |
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| cccaggagtt | tgagaccagc | atggaaaaca | tagagaaacc | ccatctcaat | ataagaagaa | 1740 |
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| aagttccaca | aaaacctggg | taggatttgg | atagcaattt | ctttagttct | acaaatcaat | 1860 |
| ttggaaaaaa | ttaatttaatt | tgggaagaat | tcattttgag | tcttctaata | catgaacatg | 1920 |
| gtatctccat | ttgttttagac | catctttaat | gcctactaat | aacatttctg | tatagtgacc | 1980 |
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| cccaacaact | ttgctaaact | cctctgaatc | ctcagaattt | ccctgtggat | tatgtaggct | 2160 |
| cttctgcata | cacaaccata | tcactctgtg | ataaagacag | ttttgttttc | ttcttcacaa | 2220 |
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| tagctctgtt | ggcagctctg | actttttcca | tagatggcct | tcacagctt | aacaatgggt | 2400 |
| ctttcttccc | cagagggtcg | agcttttccc | taagaacaga | cagtgaagtgt | catcaaacac | 2460 |
| taggctgcat | ctgttgagat | ggtcatacga | cttgtgtctt | ttcctgtgtt | tgtgtgtgaa | 2520 |

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<210> 1890

<211> 4273

<212> DNA

<213> Homo sapiens

<400> 1890

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<400> 1891

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| tgtgtgtgct | gatggctgcg | ggagcctgct | atgcagcagg | gggccttcaa | gttcccggga | 1920 |
| acacccttcc | cagtcacctc | ccagcagctg | ctgccagccc | catgccccctg | catatcactc | 1980 |
| cgttaggcct | gctgctcctc | attctgtact | gcctcatctc | aggcttgtcg | tcagtgtaca | 2040 |

| | | | | | | |
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| cagagctgct | catgaagcga | cagcggctgc | ccctggcact | tcagaacctc | ttcctctaca | 2100 |
| cttttgggtg | gcttctgaat | ctaggtctgc | atgctggcgg | cggtctctgg | ccaggcctcc | 2160 |
| tggaagggtt | ctcaggatgg | gcagcactcg | tggtgctgag | ccaggcacta | aatggactgc | 2220 |
| tcatgtctgc | tgtcatgaag | catggcagca | gcatcacacg | cctctttgtg | gtgtcctgct | 2280 |
| cgctgggtgt | caacgcggtg | ctctcagcag | tcctgctacg | gctgcagctc | acagccgcct | 2340 |
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| ccctgacaac | ttccaccctg | attccggacc | ctgtagattg | ggcgccacca | ccagatcccc | 2460 |
| ctcccaggcc | ttcctccctc | tcccatcagc | agccctgtaa | caagtgcctt | gtgagaaaag | 2520 |
| ctggagaagt | gagggcagcc | aggttattct | ctggagggtg | gtggatgaag | gggtaccctt | 2580 |
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| gttcttccag | actaaagaat | taaggtaaca | tcaataccta | ggcctgagaa | ataaccccat | 2700 |
| ccttggtggg | cagctccctg | ctttgtcctg | catgaacaga | gttgatgaaa | gtgggggtgtg | 2760 |
| ggcaacaagt | ggctttcctt | gcctacttta | gtcaccacgc | agagccactg | gagctggcta | 2820 |
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| ctccagttcc | agcaatgcct | agagacatgc | tccttgccct | ctccacagtg | ctgtcccca | 3000 |
| cacctagcct | ttgttctgga | aaccccagag | agggtggtg | ttgactcctc | tcagggaatg | 3060 |
| tagccctggt | gccctggctt | aagccgacac | tcctgacctc | tctgttcacc | ctgaggggtg | 3120 |
| tcttgaagcc | cgctaccac | tctgaggctc | ctaaggaggt | ccatgcttcc | cactctgggg | 3180 |

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| cctgccccctg | cctagcagtc | tcccagctcc | caacagcctg | gggaagctct | gcacagagt | 3240 |
| acctgagacc | aggtacagga | aacctgtagc | tcaatcagtg | tctctttaac | tgcataagca | 3300 |
| ataagatctt | aataaagtct | tctaggctgt | agggtgggtc | ctacaaccac | agccatgatt | 3360 |
| gtcttgtgtc | ttctgtctgc | gcaactcccc | tcaaaacatt | ttgttctctc | ggggtcctga | 3420 |
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<210> 1894

<211> 539

<212> DNA

<213> Homo sapiens

<400> 1894

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| ccttgacctt | tttagttccg | gggagaagcg | actctggagc | ggctcaggag | tgaggatgtc | 120 |
| ccttggtttc | tctgcggctc | ctgtcaactg | cctcaacagt | gtggagtggt | gtggggagag | 180 |
| cattcggcga | ggcgggagga | gccgtggatc | ccccagatgt | ccccctctgg | gaaccatcac | 240 |
| gaacccgtta | ctagcacaga | ctcaaaaaca | ttcaccctta | aacactcctc | actttacccc | 300 |
| attccctagc | tcccgaattt | ttcttcccag | tgacacgatg | tttccaatca | cacggacact | 360 |
| cacaccaccc | tcattcaaac | actcctttgc | atacactctg | aatttcatac | ttatatgcga | 420 |
| tcaaaatcac | tcagtccatt | tacttacaca | cttgccgaca | gtcttttttg | tcattctcag | 480 |
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<210> 1895

<211> 5536

<212> DNA

<213> Homo sapiens

<400> 1895

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| tggacggcaa | cgacaacgtg | accctgctct | tcgcccctct | gctgcgggac | aactacaccc | 120 |
| tggcgcccga | tgccagcagc | ctgggccccg | gcacgaacct | cgccctcgcc | cctgcctcca | 180 |
| gcgcggggcc | cgccctgggc | tcagcctcgg | gccgtaccg | agcttcggct | tcagcccggc | 240 |
| cccactccga | ccccggagcc | cacgaccagc | ggcctcgcg | gcggcgcggc | gagccacggc | 300 |
| ccttccccgt | tcctcgggcc | ctgggcggcc | cacgcgctcc | cgttctggga | cacgccgtg | 360 |
| aaccacgggc | tgaacgtgtt | cgtggggcgc | gcctgtgcat | caccatgctg | ggcctgggct | 420 |
| gcacgggtga | cgtgaaccac | ttcggggcgc | acgtccgtcg | gcccgtggcg | gcgctgctgg | 480 |
| cagctctgcc | agttcggcct | cctgcgctg | ctggccttcc | tgctggccct | cgccttcaag | 540 |
| ctggacgagg | tggccgcccgt | gggctgctcc | tgtgtggctg | ctgtcccggc | ggcaatctct | 600 |
| ccaatcttat | gtccctgctg | gttgacggcg | acatgaacct | caggtacgga | tctgtctatt | 660 |
| ccttgggcat | ctgtctcatc | ccagacgcgc | gtttacggcc | gtgggctcac | gacgaaggac | 720 |
| agaggcagtg | gaggggttgg | aattaggcgt | ggaggaagga | ggagaaaagg | agaggaagtt | 780 |

| | | | | | | |
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| gatgacgccc | cggtctttaga | agtcaaggcc | gacctgcagg | ttgtgctgct | aggggagcaa | 840 |
| gctagacggc | gagggagctg | ctccaaggct | gggattccat | gcgcagcgcg | gcccttcagc | 900 |
| agggtccttc | gccgtcctcc | ccgagcgctg | gggtggcagc | gcaggctcgtt | gtccagtggg | 960 |
| agacaaaagag | aagggggaggt | ctgaactaga | actcgccggc | aacgtaaaag | taaaataggg | 1020 |
| ctactggccc | gtcagagaaa | gtaatctcac | atagagtgcg | ggattgttga | gtccgaccaa | 1080 |
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| ttccttcccc | tcagaatcat | ccaggctcaa | tagactttat | aatgtcgagg | gcagcagtac | 1200 |
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| gtgctgctct | cttggcactc | tcctcggatg | taggttctgc | ccagacttca | accccgggac | 1320 |
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| actcaaagct | cgttctgatt | tctgcacatt | cccttttctg | cagcatcatc | atgaccatct | 1440 |
| cctccacgct | tctggccctc | gtcttgatgc | ccctgtgcct | gtggatctac | agctgggctt | 1500 |
| ggatcaacac | ccctatcgtg | cagttactac | ccctagggac | cgtgaccctg | actctctgca | 1560 |
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| actacattgt | gaaggtaagg | ccccctcttc | cctttccata | ctagcttgga | gagcccttga | 1680 |
| tctctgacct | acagcagaaa | tgtaggaag | tttggaagaa | gcggaaagga | agaaaaggac | 1740 |
| ttggaagtag | ttgcattgat | aaaatttttt | ttaaaaagtt | tatgtacaaa | agataacttc | 1800 |
| cacttttggg | attcctagaa | tgacagcttt | aattaagaca | cagcttaatc | aaaaccagca | 1860 |
| taagagaact | atcagtactc | attggaagga | aacagatcat | agcagggtgg | ggaagatgac | 1920 |
| agtgttaatta | aatggcaaca | tattttccac | taattgtata | taattaaaca | taaaagcaga | 1980 |
| ttaaataaaa | ttactttaat | agaattgggt | cagtatttta | gaaatgcatt | gctatctttt | 2040 |
| caaaaatgga | actctaattc | tgagaaactc | tgtagtaggt | tcctttaaca | ttttattaaa | 2100 |
| tttttaaaag | taagttgata | ctaattaggac | aaaaagtaat | ggaaaagtta | cattgtagta | 2160 |
| atagaacaca | caaaaatttg | gctttaaaagc | acaaaaataa | attgggtcct | ggataaataa | 2220 |
| tggaggttat | gttgacctta | ctaaatgtgt | ttctttttct | ttctccattg | caatatttta | 2280 |
| tatggcttat | aaagctatg | aaaagatagg | ggatttctat | aattttgtga | atatttctcc | 2340 |
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| aaattcaaaa | acagtagcaa | aaaagaataa | accatgacca | ggatgctgac | ttcaggtaat | 2520 |
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| cattaagcta | atgctattaa | tgtgatggca | tttactataa | aaccttagga | agtctaagag | 2940 |
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| attaataaat | taatatattt | aatattttaa | tataatagac | ataagattag | ctacctttga | 3060 |
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| aaataagtta | actaccaata | tgaaggagaa | cgaggagagg | aattttttaga | tttccgcctt | 3600 |
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| ccctgataac | cagtttttaa | gcttttgaag | agctgttttt | caggaaaaaa | gcttttgaag | 4260 |
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| ggccagcctg | gtcttcaact | cctgacctca | tgatccaccc | accttagcct | cccaaagtgc | 4560 |
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| aatggttgca | aagcgagatc | ctctagatga | agatgaagat | acagatattt | cttataaaaa | 5340 |
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| gctgaaatat | tgcttcatat | ttatagcctg | tggtagtgca | catggttaac | ataaaagata | 5520 |
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<210> 1896

<211> 6717

<212> DNA

<213> Homo sapiens

<400> 1896

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| aggaaactaat | tacttgagta | atttgccttg | ccttgctgag | aggagtgtgc | cctgaggggac | 180 |
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| gagggctctca | ggttagatta | tcctcccaag | actcttctct | cttccttctc | tactggaagc | 360 |
| ccacatagca | tttccttatg | gcttgaggga | gaggttcgga | gccacttaca | aattagataa | 420 |
| agtacattta | caatcttgta | caaagccaca | caatgaagtc | atTTTTtctca | gctTTTTttt | 480 |
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| tgatgaagga | gaatcacttg | aacctggag | gcagaggttg | tagagagcca | agatggcgct | 1860 |
| actgcactcc | aacctgggag | aaagagagca | agactccgtc | tcaaaaaaaa | aaaagacaaa | 1920 |
| aattagccag | gcatggtggt | gccacctgta | gtcccagctg | cttgggagcc | taaggcagga | 1980 |
| gaatcgtttt | gacctgggag | taggaggttg | cggttaaccga | gattgtgcca | ctgcacttga | 2040 |
| gcctgggcaa | cagagtgaga | ctctgtctca | aaacaataag | aacaacagca | acaaaagaga | 2100 |

| | | | | | | |
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| gcactttaga | ttcattgatg | cagtttgga | ataatggtga | aggtgctgaa | ccctcagcag | 3240 |
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| ctagcagcca | cactggaaat | agacgaactt | aatttttaca | atataattta | tttaaccac | 3480 |
| taaatccaac | atactctcaa | tttaacattt | cagaaaaagt | tgaggctggg | tgagtggctc | 3540 |
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| cctggtctca | ggacctcatg | gaagaagagg | gggagagagt | tacaggttgg | acatgatgca | 5700 |
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| | | | | | | |
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<210> 1897

<211> 418

<212> DNA

<213> Homo sapiens

<400> 1897

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| caaggcctcc | ccttccacag | ttggctcctt | tatcactttc | ccttcagttc | acccagcggg | 180 |
| gacaacacgc | agacaccccg | tggtggctgc | agggcccccg | gcagccagcg | gtgataatgc | 240 |
| agggaagggc | gccccaacct | cagctacgcg | ggcgcccaca | gggcttctcc | ccaccctac | 300 |
| acgtgcccc | gcgccttga | gaccgcgcct | gggagctacg | agcgcagacc | ttccctcgca | 360 |
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<210> 1898

<211> 4126

<212> DNA

<213> Homo sapiens

<400> 1898

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| gcatacaacc | cactgtcagg | ctggggggcc | cagcaggggc | gatggaggag | acgagggtgg | 120 |
| tgagggatatt | tctcagctgc | agggttcagg | cccaggacag | gaggagatgt | caggcatcag | 180 |
| acactgagcc | tgcttgggtg | ccgcaggagc | caaaaactgg | cggccagagt | ttttcccgcc | 240 |
| cccgcctccc | gcttaccac | aagggtgccc | agaggccacc | ctctgcatcc | tcctttcccc | 300 |
| tcaggatgga | gtccaggccc | aaaggggtca | gattctgcag | aggccaaaga | ggacactcag | 360 |
| gaaggtgaca | ctgcctcagc | cagccaaagg | ccccctgcct | cgagaggagg | cagcagagga | 420 |
| agagcaaa | ctttaacaca | ggctgtggcg | acccgcccc | cagcacacac | ggcacacaga | 480 |
| gggcctcagg | cacagctccc | cttctcagag | caaaaaccac | ctagacacaa | ggcccagctc | 540 |
| ctgcccacag | ccacagaaac | gcggggccca | ggcttgccctg | ggctggcacc | tactggttct | 600 |
| cttccctgct | ggcagcatga | agggaaaaga | cacaggaggg | ctcagctggg | ctccttagact | 660 |
| ggcccaggct | gagtcctggt | cccagccaac | atctgacaaa | ggaaacaccc | caactggagg | 720 |
| agacaaaagg | ggtgtggctc | acatggagca | cgctgtcacc | gtcctgaggg | cttgcccatg | 780 |
| gagaagacag | caccctgggt | actgaagggg | aacgggtggg | caggaaccag | gaggtgagct | 840 |
| gggactcagg | tacttgctgc | tggccaggta | ctcacagcgt | ctggtaggtg | ctgtccttgg | 900 |
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| ctccgataaa | gctggccccg | tcaaaccag | ggctgtgggc | ctcagggact | ggggggctcc | 1020 |
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| ttttatgcc | cccacattct | ctctgggcct | catgatcaca | tggccaatt | ggtggcttgg | 1320 |
| accagtgact | gggtccccac | cctccctggg | cctcaccagc | ccaatagggt | gaagacagag | 1380 |
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<210> 1899

<211> 341

<212> DNA

<213> Homo sapiens

<400> 1899

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actcctggct tcaaacaaatc atcccgcctc agtctcccaa agtgctggaa ttacaggtgt 240
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<210> 1900

<211> 142

<212> DNA

<213> Homo sapiens

<400> 1900

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| cacaccaaca | tggcacatgt | atacatatgt | aacaaacctg | cacattgtgc | acataactc | 120 |
| tagaacttag | agtataataa | aa | | | | 142 |

<210> 1901

<211> 890

<212> DNA

<213> Homo sapiens

<400> 1901

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| cctggatcct | gccttccagc | ccctgcccaag | gtaaacagtg | ctgcctgcct | cctgtgggga | 120 |
| atgcaggatg | gggcaatgcc | ctggcagcag | ggtcttgccct | cagctgatgc | aactgtggct | 180 |
| gctcctgtgt | gcacagatca | tgtgcctgga | aggccttcct | gcagcagggg | cagtgtcaga | 240 |
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| agcaagcact | gcagatggcc | cttgttcctg | ccgggctcct | ccagctggga | gctctcagcc | 360 |
| cctggtaaat | tctggcagtg | aaagacacat | tagcacctcc | ccctacaatg | aggcacctag | 420 |
| ctagacaact | tggtctgccg | ggcttaacct | gcgtggcagg | gaaggacgcc | tgcccagcct | 480 |
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| tgagctaata | tactggtagg | tgtcatgggg | gctttcagag | ctgggtaagg | agggaaagag | 660 |
| atggagatac | tggttcccca | ctccttaacc | tgccacctgc | cttcacctgtc | ctttaccctc | 720 |
| cctcattctg | ctggacctga | ggaaaatgca | agggaggcta | ggcctagtgg | ctcatgcctg | 780 |
| tcaccccaac | actttgggag | actgaggtgg | gagaatcact | tgagcctagg | agtttgagac | 840 |
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<210> 1902

<211> 891

<212> DNA

<213> Homo sapiens

<400> 1902

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| cctggatcct | gccttccagc | ccctgcccaag | gtaaacagtg | ctgcctgcct | cctgtgggga | 120 |
| atgcaggatg | gggcaatgcc | ctggcagcag | ggtcttgccct | cagctgatgc | aactgtggct | 180 |
| gctcctgtgt | gcacagatca | tgtgcctgga | aggccttcct | gcagcagggg | cagtgtcaga | 240 |
| aagtgggaaga | gtggtgtgag | cagcttcccc | ggggaaagcc | tggtctgagca | actgaccttg | 300 |
| agcaagcact | gcagatggcc | cttgttcctg | ccgggctcct | ccagctggga | gctctcagcc | 360 |
| cctggtaaat | tctggcagtg | aaagacacat | tagcacctcc | ccctacaatg | aggcacctag | 420 |
| ctagacaact | tggtctgccg | ggcttaacct | gcgtgggcag | ggaaggacgc | ctgcccagcc | 480 |
| ttagcctcta | cgcaatgggtg | gaggcagggg | gggagagaac | cacacagctc | ccctcatttc | 540 |
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| gtgagctaata | atactggttag | gtgtcatggg | ggctttcaga | gctgggtaag | gagggaaaga | 660 |
| gatggagata | ctggttcccc | actccttaac | ctgccacctg | ccttccctgt | cctttaccct | 720 |
| ccctcattct | gctggacctg | aggaaaatgc | aaggagggct | aggcctagtg | gctcatgcct | 780 |
| gtcatcccaa | cactttggga | gactgaggtg | ggagaatcac | ttgagcctag | gagtttgaga | 840 |
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<210> 1903

<211> 155

<212> DNA

<213> Homo sapiens

<400> 1903

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| ttcatctcca | cccttccgtg | ttccacctct | gttaaggggg | acagcaagca | gcttgaggct | 120 |
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<210> 1904
 <211> 155
 <212> DNA
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<400> 1904
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<210> 1905
 <211> 13255
 <212> DNA
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<210> 1912

<211> 242

<212> DNA

<213> Homo sapiens

<400> 1912

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<211> 5754

<212> DNA

<213> Homo sapiens

<400> 1913

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<211> 294

<212> DNA

<213> Homo sapiens

<400> 1914

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<400> 1915

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<212> DNA

<213> Homo sapiens

<400> 1916

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<212> DNA.

<213> Homo sapiens

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<211> 5755

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<210> 1929

<211> 2932

<212> DNA

<213> Homo sapiens

<400> 1929

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| agagttctca | ctccatcaca | ggaggcaagg | ggtacccttg | tgaaccagac | ttcaactcct | 180 |
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| tacacagatt | cccctggaga | aaatacaggc | cattctcatc | ttctcaacat | gcattttccc | 360 |
| actcttcagt | gacttttaat | cttatccct | ggtctatgag | aaaccataac | ccacgtgcta | 420 |
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<211> 353

<212> DNA

<213> Homo sapiens

<400> 1930

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| ccatactatg | tgactggcac | tgtcctagca | ctctactggg | tttgggttct | cacaataatt | 180 |
| ctatcattct | atttgcgtca | tttttcagat | aagaaaaatg | aggatcagag | aagtcaagga | 240 |
| acttactcaa | aattgcacag | cagtgaatct | aggcctgtct | gacctccaaa | cagatatattt | 300 |
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<210> 1931

<211> 10876

<212> DNA

<213> Homo sapiens

<400> 1931

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| tagtggggaa | tggaatggcg | tgtatgggga | ggtccttttt | gtaccctgat | cccaggaagt | 240 |
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| gctcgggagg | gagctggggg | ttcttcagag | acgctgtacc | tacaagacag | gggctccagg | 480 |
| ctcgggtggg | gattgcagag | acacccccac | cccaggaaac | tcggtaggcc | acgggagggg | 540 |
| gtctttgatg | aaggtctcag | aaatagctct | tcctccggag | gggaaatgag | ggctcgggcc | 600 |
| aggttcctga | gacaccccc | acccccacac | taggaagt | ctcaagtctg | gcagtgtctc | 660 |
| caaattgact | tctgccagaa | gatgagtgtt | taagacttgc | taggggccct | ggaaaagacc | 720 |
| tctaggccct | agaattgggg | tcaaatggga | gtccctgggt | catttctgtc | cctgggaagg | 780 |
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| gcagtttgca | gcgtctgggg | cagggggtctc | cgagtctgtc | cccaaccctc | agctcactca | 900 |
| acaggttgca | ttagctctgg | tctcgggctt | gggggcccag | gcgggaagga | ggggggtgag | 960 |
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<211> 742

<212> DNA

<213> Homo sapiens

<400> 1932

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| gcctgtaatc | ccagctactc | aggaggctga | ggcgggagaa | tcccttgaac | ctgggtggga | 1260 |
| ggggttgag | tgagctgaga | tcgtgccact | gcactccagc | ctgggtgaca | gaatgagact | 1320 |
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<210> 1934

<211> 147

<212> DNA

<213> Homo sapiens

<400> 1934

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| cggagggtgc | agtgagctga | gatcgtgcca | ctgcactcca | gcctgggtga | cagagtgaga | 120 |
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<210> 1935

<211> 590

<212> DNA

<213> Homo sapiens

<400> 1935

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| ttggttcttg | gtgacctcta | ggcaggcagc | accccgagcag | ggctggactg | tgtgtgtctc | 240 |
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| tttatctttt | tccagttttt | tgtttgtttt | atctcttcat | cacgggtgaat | ggggttctta | 540 |
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<210> 1936

<211> 16772

<212> DNA

<213> Homo sapiens

<400> 1936

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| ctttggccgg | gcgagcta | cgtcggctca | atgacgacga | ggcccagacc | ttcccgtcca | 180 |
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| ctgaagcaag | agctccccgg | ctccactgaa | acaccagctc | atttaagctt | tccccaacgc | 300 |
| ccggccctcc | gggacgatac | ctaacaacga | ccggcgcccc | catctggaat | aggctggcga | 360 |
| gatacttagt | atccgagggc | tcgggacttg | gcgccatcga | ggtcatgggg | acccaggatc | 420 |
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| ggcagctgat | ggtttcctat | gagggtaaaag | ctatgggcta | ccagggtgcct | ccctttggct | 660 |
| ggcgcatctg | tctggctcat | gagtttacag | agaagaggaa | accctttcaa | gctaacaacg | 720 |
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<400> 1937

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<400> 1938

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<211> 1122

<212> DNA

<213> Homo sapiens

<400> 1949

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| gctggggcgg | ctccctgggg | tgtcatccct | ttcttgcctt | tgtggatggg | aaccagagca | 240 |
| ccccacttca | aagactctgt | aagccagggc | ttaccagaga | aagctgaaga | gtctaggggc | 300 |
| aatttttaac | agtttcttgt | gcttctcatg | ccaaaagaga | tgattgtcct | cactatagtt | 360 |
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| agccgagatc | ccgccactgc | actccagcct | gggcgacaga | gcgagactcc | gtctcaaaaa | 1080 |
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<210> 1950

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<213> Homo sapiens

<400> 1950

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| aaaaaccatt | ttccggccgg | gcgcggtggc | tcacgcctgt | aatcccagca | ctttgggagg | 840 |
| ccgaggcagg | tggatcacga | ggtcaggaga | tcgagaccat | cccggctaaa | acggtgaaac | 900 |
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| gccgagatcc | cgccactgca | ctccagcctg | ggcgacagag | cgagactccg | tctcaaaaaa | 1080 |
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<210> 1951

<211> 2979

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<213> Homo sapiens

<400> 1951

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| tggtgactct | cccttcttcc | aatatctctc | ccaccatcag | cacttcccac | agtctgagcc | 420 |
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<212> DNA

<213> Homo sapiens

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<210> 1954

<211> 216

<212> DNA

<213> Homo sapiens

<400> 1954

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<211> 5689

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| gaatggcgcc | tgatgggta | ttttctcctt | acgcactctg | gcggtatttc | acaccgcata | 180 |
| tggtgcactc | tcagtacaat | ctgctctgat | gccgcatagt | taagccagcc | ccgacacccg | 240 |
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| gctgtgacgg | tctccgggag | ctgcatgtgt | cagagggttt | caccgtcatc | accgaaacgc | 360 |
| gcgagacgaa | agggcctcgt | gatacgccta | tttttatagg | ttaatgtcat | gataataatg | 420 |
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| ttttttgcgg | cattttgcct | tctgtttttt | gctcaccag | aaaacgctgt | gaaaagttaa | 660 |
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| ctgctatgtg | gcgcggtatt | aatccctatt | tacgcccggg | cagaagcact | cggtcgccgg | 840 |
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<211> 150

<212> DNA

<213> Homo sapiens

<400> 1959

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| ttcgccagct | ggcgtaatag | cgaagaggcc | cgcaccgatc | gcccttccca | acagttgcgc | 120 |
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<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<400> 1960

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| agctccacgc | caggattccg | cgcgccccct | cacgcgcctt | gctcctgaac | ttcagctcct | 120 |
| gcacagtcct | ccccaccgca | aggctcaagg | cgcgcgcggc | gtggaccgcg | cacggcctct | 180 |
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| | | | | | | |
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<400> 1963

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<210> 1964

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| ccagggtcta | gccgacagca | ggccaagagt | aggaacaaag | caagaaaaag | ttccgtgggg | 1860 |
| agacttgagc | tggaatttag | ggtgttggtg | cccctagtga | agacctagt | ggcatctgta | 1920 |
| ggccactgcc | acctctgctt | ttggccacag | tgccactcag | gcagtggcct | ccattcacc | 1980 |
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<210> 1965

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1965

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506

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<210> 1966

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1966

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<210> 1967

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (76)..(76)

<223> n equals a,t,g, or c

<400> 1967

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| agggcggagg | ttgcanggag | ctgaaaatcg | tgccactgca | ctccagcctg | ggtgacagag | 120 |
| cgagactctg | tctcagaaaa | aaaagaacaa | ctagagcaga | gtgaggggtga | tgatgggttg | 180 |
| ctctttaaac | taggatggtc | agtgtaggcc | acatctagaa | ggtacgattt | gagcaatggc | 240 |
| atgaaggagg | tgaaaagttg | gtcttgtaga | tatctgagga | tacgagttcc | agggtgcagg | 300 |
| aacagcccat | gcaaaagccc | taagttggga | atgcgcctgg | tatgtttctg | gaggaacaag | 360 |
| attagtgtgg | gcagaatgga | gtgaggaaga | agaggtctac | tgtttggggg | tccgagggga | 420 |
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<210> 1968

<211> 479

<212> DNA

<213> Homo sapiens

<400> 1968

| | | | | | | |
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| ggcaagagaa | tctcttgaac | ccaggaggcg | gaggttcag | ggagctgaga | tcgtgccact | 120 |
| gcactccagc | ctgggtgaca | gagcgagact | ctgtctcaga | aaaaaaagaa | caactagagc | 180 |
| agagtgaggg | tgatgatggg | ttgtctctta | aactaggatg | gtcagtgtag | gccacatcta | 240 |
| gaaggtacga | tttgagcaat | ggcatgaagg | aggtgaaaag | ttgggtcttgt | agatatctga | 300 |
| ggatacgagt | tccagggtgca | gggaacagcc | catgcaaaag | ccctaagttg | ggaatgcgcc | 360 |
| tggtatgttt | ctggaggaac | aagattagt | tgggcagaat | ggagtgagga | agaagaggtc | 420 |
| tactgttttg | gggtccgagg | ggaggttttt | gttttcttta | gagacagggg | tttgactg | 479 |

<210> 1969

<211> 506

<212> DNA

<213> Homo sapiens

<400> 1969

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-----|
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| ccagaggacg | taccttgtec | tcattcccaga | ttcagctttg | cctttgggat | gagaaagggg | 120 |
| cagggctcgc | aacaggccctc | tcactgggac | aaggagtcgg | gaggccatct | ctgcactccc | 180 |
| agtgcctctg | cttttctttg | gaaaggaagt | tgcaacaaga | atggcttcag | ttgtctcttg | 240 |
| tcatttttat | cctctcttcc | ccctgtttgt | atatgattct | tgggtctatt | ttaatttaact | 300 |
| ttagtatgaa | aatcacttgt | catgccaggc | gcagtggctc | atgcctgtaa | tcccaacatt | 360 |
| ttgggaggcc | aaggtgggtg | gatcactaag | gtcaggagtt | ccagaccagc | ctggccaaca | 420 |
| tggtgaaacc | ccatctctac | taaaaatata | gaaatagcca | ggcgtgggtg | gaggtgcctg | 480 |
| taatcccagc | tactggggag | gctgag | | | | 506 |

<210> 1970

<211> 1006

<212> DNA

<213> Homo sapiens

<400> 1970

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| atgtggcaaa | atgttaaatg | ttgttaaatac | tgagtggaga | gtacattggg | gttaagtgtg | 120 |
| ctgctatgca | gggtgagtga | attactcaat | aactaaataa | ttgtgacata | atatatttat | 180 |
| ttatgcttcc | ctgttatgat | ctacacataa | aattactgga | gcattattgc | tttaacttctt | 240 |
| gtaaaaaagt | tctgcaattg | tagtgttatt | aagaaagtaa | tattgatttg | tatagtgaca | 300 |
| gaggattttt | tcagtgtcac | tttgccagca | gagatcttca | tggtgggcat | tgccccctgcc | 360 |
| catgtctcac | ttggccctgg | gcttgcccca | ctaggtaccc | tgcccacctg | gccaggcagg | 420 |
| ctgtgcttgg | cttgagctct | ggcccagatc | ctgcacttgc | tctgcggtcg | agccaggcat | 480 |
| gccatgacct | acttccacct | tgggagccgg | cgtctggatg | aggggaatgc | tgtgacactt | 540 |
| gaacagaggt | gggcatgtga | ccccaaagcc | ccaaaggggg | tgttacagca | tgctaacagt | 600 |
| tctttcagtc | tcacatccac | agcccaacaa | atggagggtg | gtggtgccca | gaggtccctt | 660 |
| ctcccattgt | ttggcaagca | ggagggggtg | gctacagggg | tacagctttg | tttgcaactg | 720 |
| ccgttttggt | ggctcctgagt | tcttttccca | tgtccaagaa | taaggttgtg | ctgacagcta | 780 |
| gcggttgagt | gaggcaagaa | gttttactca | gtaacaaaac | agctctcagc | agagaaggaa | 840 |
| gcctgagttg | gacagcacc | ttacctgaag | ttgggtagtc | ttcccaccac | ctaaaagtgg | 900 |

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<210> 1971
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 1971
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<210> 1972
 <211> 1583
 <212> DNA
 <213> Homo sapiens

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<210> 1973
 <211> 4443
 <212> DNA
 <213> Homo sapiens

<400> 1973
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| | | | | | | |
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| tgattttaaca | aaataacgct | aggtgcaatc | agtcactctc | ttgtgaattg | cttagcaaaag | 420 |
| attattaccc | cagacagagt | acactgagaa | aaaataataa | aaccctagga | ctggacccca | 480 |
| aactgaagac | ttcagtgagg | aattgcctct | ttgtgacatt | ccaccctata | tcgtaacact | 540 |
| gatgattcac | tttggaaacct | aaaagttagt | tacttttatg | ttcaacctac | actcagcaat | 600 |
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| tgggatgaac | atattatgatc | ccaacacatc | taattctagg | tgtctacagc | attcaaatat | 1860 |
| tgagttagca | cttacacttc | caaagaccaa | ttcttcaaga | taatgtctgag | gttaacttac | 1920 |
| agttttatat | attattcaat | ggggcagttc | acaggacatt | tgaagtgact | tggagagaaa | 1980 |
| aaagaatacc | gccgttcata | ttattaatat | ttatggatca | gttattatat | tcaggccatg | 2040 |
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<210> 1974

<211> 604

<212> DNA

<213> Homo sapiens

<400> 1974

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<213> Homo sapiens

<400> 1975

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<211> 2304

<212> DNA

<213> Homo sapiens

<400> 1978

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<211> 298

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<210> 1983

<211> 2371

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| tctggatgcc | acctcagatg | gggtgcctca | agtttaagg | ctcagccaca | tccataaaac | 2040 |
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<210> 1986
 <211> 1329
 <212> DNA
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<210> 1987
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 <212> DNA
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<210> 1988
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 <212> DNA
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| ctcttttgca | tccttttgcc | acacctctcc | tcccccaacg | ttaccatagt | ccattggtcc | 360 |
| attgactcta | cctgtgggtc | cctgggggaag | gagacattgc | aggtggccct | gcagccagga | 420 |
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<210> 1989

<211> 2649

<212> DNA

<213> Homo sapiens

<400> 1989

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| atgttatatc | aaaatatgtt | gttatacttt | aggataatcg | gtgtgttagc | cctgaatttc | 180 |
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| aaatacagtt | tggaaactta | ataaactatt | gatcaatttc | tggctcttatg | ctagaaggaa | 300 |
| taaagcatca | agaaaaagaa | aagatttgct | gtcaagacca | ggaaaatttg | acaatagagt | 360 |

| | | | | | | |
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| attagaatgc | aggaaatgag | gggaagtgga | aaggcagcaa | gtaggagaga | aaaagtgcag | 420 |
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| ccctaaaatg | ctgtttgctg | tcttaggttg | caagtaacca | aattaaaacc | agtttgaaag | 540 |
| tagagtgaga | cagctgtcat | cataagagtc | at ttgatctg | tttaaagggtg | gctgcttgta | 600 |
| tgcaaggacc | aacagtcacg | ttcagggcag | cagctggtgc | acacttcaag | cacagaccat | 660 |
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| agagctgtgc | gactggcccg | caaatgtatt | ttgtatggct | catacacagt | tcagaagttt | 1980 |
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| atttctctgc | gccttagag | aagctttctg | gcttgtagcc | tctattctag | ctgctctatg | 2220 |
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<210> 1990

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<212> DNA

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| | | | | | | |
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| | | | | | | |
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| acaccctaga | agcctagggc | tggggagagc | agccctgtct | gggagggggc | gttgggtggc | 13020 |
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<210> 1995

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1995

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| ctgcgataac | tctctcccct | tgagggtttc | cagtgtggga | agttgtcatt | taggcgcggc | 120 |
| aaaagtggtc | tggcctctcg | tgcttcttga | gatcccttcc | gggctctggg | ctatcttgtc | 180 |
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<210> 1996

<211> 2124

<212> DNA

<213> Homo sapiens

<400> 1996

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| cggctctatg | agccactgtc | cgacctatc | cccattcaat | gtgaatgaca | ttagggaggc | 120 |
| cggggcacag | gtagatccca | ctgcctggct | aaaggggcca | tagcaagggg | tccctcccat | 180 |
| gcaaggggtc | tctcccatag | ccaggatatg | aatagataca | ctgctcgcca | tgaagaggga | 240 |
| aatctcattg | gactaataca | ttcccctaca | ccctgcctgg | accctctcat | tcctccccac | 300 |
| ctcccaagat | gatgggtcaa | aggtacctag | cactattatg | tggggtagca | aaggaagccc | 360 |
| ctttatttgt | cccagaactg | tgggaaaagg | atacccttcc | cttctcagcc | atctcaggcc | 420 |
| tggggggtac | tgaggtagag | ggggaggggc | caggccactc | taatccccct | tgtgggccct | 480 |
| gctctggacc | tgccccttag | ggaagcaggg | ggcattttgc | tggtagggga | ggctgggaca | 540 |
| tcagcccaga | ctggaatgct | gcagttcttc | ccgaagccac | gagggcactg | gctgtccaag | 600 |
| cgggtcagc | agcttcgaca | actccaaatt | atggttccgg | aaaaaatccg | taaggaaaag | 660 |
| acgggactga | caggagaaaa | tgaaggcaga | aatggtaaga | agtgggacac | agaatcagat | 720 |
| cctggaagtg | gagagggatt | cccctgcccc | tggctttact | tacctcagtg | tccatatctg | 780 |
| gatacctccg | gcctttgctc | cggcctagac | agcgagtctt | accaccttca | agtccctggc | 840 |
| acaaaaatcc | cttatcatca | tcaaacctgc | tcaacaggaa | gaggccatga | ggtggcaggg | 900 |
| aaaagagaaa | ctcaagttcc | ataaatgcac | aatgcccttc | cctgcccaca | gggacatgtc | 960 |
| tctccttgtg | agacagagta | aatctatgtc | tctaacagac | atggtcaacc | tgcttcccga | 1020 |
| tttcccatat | agtactcctc | ccctgggtca | tgtcttccca | cctgagggtc | cgtgtgtagt | 1080 |
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| gagaagcaga | aaaatatgca | gagtgaagt | gccagaagtc | tgctgtgagg | gaagctggaa | 1920 |
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| accagtcaat | acccttgtgg | taattagggc | tggtgaagaa | ctgaatctcc | tcaaatgtgc | 2040 |
| tggggctagg | gaagctgcta | gttacagctg | ggtgcaggct | caggaagaag | tgaatagctg | 2100 |
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<210> 1997

<211> 207

<212> DNA

<213> Homo sapiens

<400> 1997

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| ctgcgataac | tctctcccct | tgagggtttc | cagtgtggga | agttgtcatt | taggcgcgcc | 120 |
| aaaagtggtc | tggcctctcg | tgcttcttga | gatcccttcc | gggctctggg | ctatcttgtc | 180 |
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<210> 1998

<211> 2971

<212> DNA

<213> Homo sapiens

<400> 1998

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| cggctctatg | agccactgtc | cgacctcatc | cctattcaat | gtgaatgaca | ttagggaggc | 120 |
| cggggccacag | gtagatccca | ctgcctggct | aaaggggcca | tagcaagggg | tccctcccat | 180 |
| gcaaggggtc | tctcccatag | ccagggtatag | aatagatata | ctgctgcgga | tgaagagggga | 240 |
| aatctcattg | gactaataca | ttcccctaca | ccctgcctgg | accctctcat | tcctcccccac | 300 |
| ctcccaagat | gatgggtcaa | aggtacctag | cactattatg | tggggtagca | aaggaagccc | 360 |
| ctttatttgt | cccagaactg | tgggaaaagg | atacccttcc | cttctcagcc | atctcaggcc | 420 |
| tgggggctac | tgaggtagag | ggggaggggc | caggccactc | taatccccct | tgtgggcccct | 480 |
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| ccggctcagc | agcttcgaca | actccaaatt | atggttccgg | aaaaaatccg | taaggaaaag | 660 |
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| cctggaagtg | gagagggatt | cccctgcccc | tggttttact | tacctcagtg | tccatatctg | 780 |
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| cccgccgtgg | tacaacttca | gagtcaaagt | aggtggcact | tttttcaa | aggaaatcag | 1800 |
| tgctggcatt | ggaaggaaca | gggaagaaat | ccatgtacct | aggaagtagc | acagaagaga | 1860 |
| gagaagcaga | aaaatatgca | gagtgaagt | gccagaagtc | tgctgtgagg | gaagctggaa | 1920 |
| tgggggtattt | tgggggaagg | gagtgttcct | ctgagaaaca | ttcaaatggg | gcccagtcctc | 1980 |
| accagtcaat | acccttgtgg | taattagggc | tggtgaagaa | ctgaatctcc | tcaaatgtgc | 2040 |
| tggggctagg | gaagctgcta | gttacagctg | ggtgcaggct | caggaagaag | tgaatagctg | 2100 |
| tagtccctaa | atgggagaga | aagaccagct | tcaggcagcc | attgtgggag | ggaagccagc | 2160 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| tcaacagcat | aagcttgaag | gaagtgaaaa | aataaccact | ctgggtagga | aaatccccta | 2220 |
| tggccaaact | acaatgatag | gaggcaagtc | tgagagaggc | ccagggaagg | gctaaaacag | 2280 |
| tgggtctctg | ctttaactgt | gcaccagaat | gacttgtgat | cttgtaaaaa | caccacagat | 2340 |
| gattctgata | tacaaccagg | gttaggaatc | actgcctcaa | gagactggat | caatgagggg | 2400 |
| tgggtataaa | aggagttcct | ttttttctct | cttaaaaatt | caaattaagg | ccgggtgcgg | 2460 |
| tggctcatgc | ctgtaatccc | agcactttgg | gaggccaagg | caggcggatc | acttgaggtc | 2520 |
| aagagttcga | gaccagcctg | gccaacatgg | tgaaccccg | tctctactaa | aaatacaaaa | 2580 |
| attagccagg | tgtggtggca | cctgcctgta | atcccagcta | ctagggaagc | tgagcagaat | 2640 |
| tgcttgaacc | tgggaggtgg | aggttgtagt | gagctgagat | cgtgccactg | cgctccagcc | 2700 |
| tgggcaaaaga | agtgagactc | ttatctcaaa | aaaaaaaaaa | ttattaaaat | taaaaatact | 2760 |
| tttttctactc | ctgtgattac | ctggagagag | aagagagttc | cttgacaaaa | ggatcctttg | 2820 |
| ggtttaaggc | agggaagag | aagttagcta | aggatacttc | acctgttttc | tgggggtcca | 2880 |
| caatgaggaa | cttcgggaga | cgatcacagg | ttttctcctt | ggaccagata | tctttgtgcc | 2940 |
| tcttgtcatc | acagggatcc | tgaagccagg | g | | | 2971 |

<210> 1999

<211> 1821

<212> DNA

<213> Homo sapiens

<400> 1999

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| cctcgagcct | agtagttcaa | ggttgacgtg | agctaggatc | gggccactgc | actccatcct | 60 |
| gggtgacaga | gtgtgaccct | gtctcaaaaa | caaacaaaaa | acacctttgg | agaaactgca | 120 |
| gctctgtgga | caccataaat | ccaagcagc | atgcttgga | gtgccctcct | cccactgctt | 180 |
| ctgtctagaa | actacaccca | cgtgggca | ccccctacc | ctaaaaaacc | aggccactcc | 240 |
| aaggaggaaa | ttgtctcaac | cagcatctca | cagtggaggaa | aaatctgcat | cacaaattgc | 300 |
| aggccaccat | gaagtttctg | gagtaccact | gccagcctct | tccaggcttg | ggtaccctct | 360 |
| catcacctcc | tccagggagc | ttttcatgac | ttcccagaa | taagtcacta | tgcccatact | 420 |
| gatgttccca | gtcctgaacc | cactccttca | gcactggcat | ccaggggctg | tgaattttca | 480 |
| cttccctgtc | tctctcatca | gactccactc | ttctacgaga | agggaagaat | ttgcatttat | 540 |
| tgtaaaaatgc | tgattaggtg | ctaatcatte | gacacccacc | atctctaatt | ctcaccacag | 600 |
| ttctgtgagc | cggatgttat | cattcccaat | atacacactc | aggatgaatg | acctgttcaa | 660 |
| ggtcaaatcc | agggtccatat | ggctcccaag | cctggggcagc | ctctctatgg | tctgatgggtg | 720 |
| tctcgtcggc | tccataagcc | ccactccctg | cccacacccc | cagcacatca | cttagaaaat | 780 |
| gcccctgggt | tacagtgccca | cggtcagatg | cacagatgtg | tacacatggg | gtcacagtca | 840 |
| ctgacctgga | aacaaagcca | ctttgcccat | gcacttattt | ctcagcgcca | gagaaccag | 900 |
| ggtgcaggaa | ggcctcggca | caccaccacc | tccactgccca | aggcaacgag | ctggggccgg | 960 |
| cacgtggtga | gcaagaaaag | caccaagctc | tggagctgga | cggacaagg | ctcaaatccc | 1020 |
| agtggtagca | accacacgct | cccggggcaag | tgattttccaa | tccttaagcc | tccccatttg | 1080 |
| gtcatcataa | agatcccccc | tgctctgga | ggctgctaca | gtttgtgaaa | aggaggggat | 1140 |
| acacaggctc | cgaataaacg | gaggctctcg | tcccttctcc | gccttccctg | tcactggctc | 1200 |
| cagggtctga | gagagcagca | acctgtgttc | tctggtctgt | aaaatggtct | gtttctttct | 1260 |
| ggctccactg | cgctatggaa | atcgtggggg | tgcggggagg | ctgcagcttg | tcattccagc | 1320 |
| cccaggcact | gactgcagag | atcccacccc | tgaccccccc | agactgggat | gccaggaggg | 1380 |
| gcagaggatc | tgcacttctg | agctgtgtgc | cttgagccaa | gcacttgacc | gcctgtgctc | 1440 |
| cagggtcccct | agctttgagc | aggggctaac | ggaagaacct | gccttgccag | gttgtgttag | 1500 |
| taaatgagtc | aacacacgtt | tcacacttag | cacagtgcc | agctcccagt | aaatgctcaa | 1560 |
| tagatggaag | ctatgattag | tcatggaaca | cggcctttct | gctgtcctcc | ctgccatgga | 1620 |
| aaatgggtaa | ctcagctgga | gggcagtccc | tctgtgtaga | ctggccaagg | ccccggggat | 1680 |
| gaggcagggt | acctgggtgc | caaaccagcc | ccctctgcta | ccaatgctcg | gcaacacacc | 1740 |
| gacagtcaag | acacacagga | ggacgtccca | tctcccttgc | atccaattcg | gcaccatata | 1800 |
| ccagtgctctg | gcacaagacc | t | | | | 1821 |

<210> 2000

<211> 1821

<212> DNA

<213> Homo sapiens

<400> 2000

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cctcgagcct | agtagttcaa | ggttgacgtg | agctaggatc | gggccactgc | actccatcct | 60 |
| gggtgacaga | gtgtgaccct | gtctcaaaaa | caaacaaaaa | acacctttgg | agaaactgca | 120 |

```

gctctgtgga caccataat cccaagcagc atgcttggca gtgccctcct cccactgctt 180
ctgtctagaa actacaccca cgtgggcact cccctaccc ctaaaaaacc aggccactcc 240
aaggaggaaa ttgtctcaac cagcatctca cagtaggaa aaatctgcat cacaaattgc 300
aggccaccat gaagtttctg gagtaccact gccagcctct tccaggcttg ggtaccctt 360
catcacctcc tccagggagc ttttcatgac ttcccagaa taagtacta tgccatact 420
gatgttccca gtccctgaacc cactccttca gcaactggcat ccaggggctg tgaattttca 480
cttccctgtc tctctcatca gactccactc ttctacgaga aggaagaat ttgcatttat 540
tgtaaaatgc tgattaggtg ctaatcatte gacacccacc atctctaatt ctcaccacag 600
ttctgtgagc cggatgttat cattcccact atacacactc aggtgaaatg acctgttcaa 660
ggtcaaatcc aggtccatat ggctcccaag cctgggcagc ctctctatgg tctgatgggtg 720
tctcgtcggc tccataagcc ccaactccctg cccacacccc cagcacatca cttagaaaat 780
gccctcgggt tacagtgccg cggtcagatg cacagatgtg tacacatggg gtcacagtca 840
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ggtgcaggaa ggcctcgcca caccaccacc tccactgcca aggaacagag ctggggccgg 960
cacgtggtga gcaagaaagg caccaagctc tggagctgga cggaaacagg ctcaaattccc 1020
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gtcatcataa agatcccccc tgccctctgga ggctgctaca gtttgtaaa aggagggtat 1140
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cagggtctga gagagcagca accttgtttc tctggtctgt aaaaaggctc gtttctttct 1260
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cccaggcact gactgcagag atcccacccc tgacccccc agactgggat gccaggagg 1380
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tagatggaag ctatgattag tcatggaaca cggcctttct gctgtcctcc ctgccatgga 1620
aaatgggtaa ctcagctgga gggcagttcc tctgtgtaga ctggccaagg ccccggggat 1680
gaggcagggt acctgggtgc caaaccagcc ccctctgcta ccaatgctcg gcaacacacc 1740
gacagtcaag acacacagga ggacgtccca tctcccttgt atccaattcg gcaccatatt 1800
ccagtgcctg gcacaagacc t 1821

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<210> 2001

<211> 313

<212> DNA

<213> Homo sapiens

<400> 2001

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tttttttttt tttttttttt tttttttttt tgagacagcg tctcactctg ttgccaggc 60
tggagtgcag tggtaacaac acacaactca ctgcacctcc acctcctggg ctcaagcaat 120
ccccctgcct cagcctcttg agcagctggg actataggca tgagccacca tgcccagtta 180
atttttaaaa attatttttt gtatagacgg ggtttcacca tgctgtccag cagggtctcga 240
actccggggc tcaagcaatt ctcccacctt ggctcccaa agtattgaga tgacagggtg 300
gagccaccgc gcc 313

```

<210> 2002

<211> 313

<212> DNA

<213> Homo sapiens

<400> 2002

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tttttttttt tttttttttt tttttttttt tgagacagcg tctcactctg ttgccaggc 60
tggagtgcag tggtaacaac acacaactca ctgcacctcc acctcctggg ctcaagcaat 120
ccccctgcct cagcctcttg agcagctggg actataggca tgagccacca tgcccagtta 180
atttttaaaa attatttttt gtatagacgg ggtttcacca tgctgtccag cagggtctcga 240
actccggggc tcaagcaatt ctcccacctt ggctcccaa agtattgaga tgacagggtg 300
gagccaccgc gcc 313

```

<210> 2003

<211> 1399

<212> DNA

<213> Homo sapiens

<400> 2003

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|------|
| ccttgagcta | gcatttcatt | atgaccgtga | tttttccccg | catcactttc | cagccttgtg | 60 |
| gtccacaatt | ccactgggcc | ctaagtatgt | actgaacttt | cctgcctccc | tcatttttgc | 120 |
| ctgcttgtgc | aattttttcc | accctccatc | tctgtcaaac | ataagccttc | ctgacctcta | 180 |
| agacctacct | ttgtcatgtg | cctttaccct | caggcaaggg | gcaatctctt | ctattcctct | 240 |
| tctaccttcc | tgtagcttct | ccccagggt | ttatcacatt | ctgccttgaa | tcctagggaa | 300 |
| caacatgtgt | agtggaaatga | acacaggcct | ctgaatccaa | gatgtgagtt | taaatcccag | 360 |
| ctttggaggt | ggttacttaa | gttctcagtg | ccttcattct | tcttcctata | taaagtagat | 420 |
| attacaatat | ctaacttaca | gagtcattgg | gagctataca | tgacgtgatt | gggtaaagca | 480 |
| cctggcacat | ggcaagcaat | tagcaaatgc | tggttacttc | tacttcttcc | tcttctcttt | 540 |
| tcccagtgta | tcataagttc | cttgagagca | ggcaccatgt | ctgatttacc | cttgattttc | 600 |
| ccacagtact | tcccgtagt | agttaccctt | agtaataact | cagtaagttg | aattgaattt | 660 |
| aaattacctg | taagtcttaa | aatgtgggat | taaattaaga | gtatgttgcc | ctggaaatac | 720 |
| ccaaatgtct | accgatggat | gaatggataa | acaaaatgtg | atatacacat | aatggaatat | 780 |
| tattcagcct | taaaaaggaa | tgaaattctg | acatgtgcta | cagtatgatg | aacctggaag | 840 |
| acattatatg | tgaaataagc | cagacagaaa | aggacaaaata | ctctatgatt | ccacttatat | 900 |
| gaagtaccta | gagtagtgaa | attcatagaa | atagaaagta | caggttgaca | tcgcaaatct | 960 |
| gaaatgggaa | attctccaaa | atctgaaact | ttttgaatgc | tgacatgatg | ctcaaagaaa | 1020 |
| atgctcgttg | gagcgtttca | gattttggat | ttttggattt | gggatgctca | actggcataa | 1080 |
| tgtgaatatt | ccaaattctg | aaaaaatctg | aagtctaaaa | cacttctggt | ctcaagaatt | 1140 |
| ttggataaag | gatactcaat | gtgcaacatg | tagaatgggt | gttacaaggt | ggtaggagag | 1200 |
| aatggagagt | tactgtttaa | tggtacaatg | ttcccatttg | ggaagatgaa | aagttttgga | 1260 |
| ggtgtgtgat | ggttatgggt | gtgcaacaat | gggaagggtac | ttaatactgc | ttaactgtgc | 1320 |
| acacttaaaa | atggtaaaaa | tgataaaatt | tgtgtatgtc | ttacaacaat | aaaagaagtt | 1380 |
| ttttttttca | aaaaggaaa | | | | | 1399 |

<210> 2004

<211> 1399

<212> DNA

<213> Homo sapiens

<400> 2004

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|------|
| ccttgagcta | gcatttcatt | atgaccgtga | tttttccccg | catcactttc | cagccttgtg | 60 |
| gtccacaatt | ccactgggcc | ctaagtatgt | actgaacttt | cctgcctccc | tcatttttgc | 120 |
| ctgcttgtgc | aattttttcc | accctccatc | tctgtcaaac | ataagccttc | ctgacctcta | 180 |
| agacctacct | ttgtcatgtg | cctttaccct | caggcaaggg | gcaatctctt | ctattcctct | 240 |
| tctaccttcc | tgtagcttct | ccccagggt | ttatcacatt | ctgccttgaa | tcctagggaa | 300 |
| caacatgtgt | agtggaaatga | acacaggcct | ctgaatccaa | gatgtgagtt | taaatcccag | 360 |
| ctttggaggt | ggttacttaa | gttctcagtg | ccttcattct | tcttcctata | taaagtagat | 420 |
| attacaatat | ctaacttaca | gagtcattgg | gagctataca | tgacgtgatt | gggtaaagca | 480 |
| cctggcacat | ggcaagcaat | tagcaaatgc | tggttacttc | tacttcttcc | tcttctcttt | 540 |
| tcccagtgta | tcataagttc | cttgagagca | ggcaccatgt | ctgatttacc | cttgattttc | 600 |
| ccacagtact | tcccgtagt | agttaccctt | agtaataact | cagtaagttg | aattgaattt | 660 |
| aaattacctg | taagtcttaa | aatgtgggat | taaattaaga | gtatgttgcc | ctggaaatac | 720 |
| ccaaatgtct | accgatggat | gaatggataa | acaaaatgtg | atatacacat | aatggaatat | 780 |
| tattcagcct | taaaaaggaa | tgaaattctg | acatgtgcta | cagtatgatg | aacctggaag | 840 |
| acattatatg | tgaaataagc | cagacagaaa | aggacaaaata | ctctatgatt | ccacttatat | 900 |
| gaagtaccta | gagtagtgaa | attcatagaa | atagaaagta | caggttgaca | tcgcaaatct | 960 |
| gaaatgggaa | attctccaaa | atctgaaact | ttttgaatgc | tgacatgatg | ctcaaagaaa | 1020 |
| atgctcgttg | gagcgtttca | gattttggat | ttttggattt | gggatgctca | actggcataa | 1080 |
| tgtgaatatt | ccaaattctg | aaaaaatctg | aagtctaaaa | cacttctggt | ctcaagaatt | 1140 |
| ttggataaag | gatactcaat | gtgcaacatg | tagaatgggt | gttacaaggt | ggtaggagag | 1200 |
| aatggagagt | tactgtttaa | tggtacaatg | ttcccatttg | ggaagatgaa | aagttttgga | 1260 |
| ggtgtgtgat | ggttatgggt | gtgcaacaat | gggaagggtac | ttaatactgc | ttaactgtgc | 1320 |
| acacttaaaa | atggtaaaaa | tgataaaatt | tgtgtatgtc | ttacaacaat | aaaagaagtt | 1380 |
| ttttttttca | aaaaggaaa | | | | | 1399 |

<210> 2005

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2005

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| ggaacattg | cttctgtacc | agccaacctt | ctgctcctga | agaatatctc | tgctatgggc | 60 |
| ctgtactgtg | gtcaatacaa | aaaatgaact | ttcccgctct | ctccaagagc | ctatcttcag | 120 |
| tgcttcggta | ctgccagcaa | gggcgcaccc | aaccatatgt | cggaaatgggt | ttcaagctgg | 180 |
| atgagggtcaa | tgatgccttc | cttcatgtga | tacaggggaa | atccgtgggc | aaggtgcttc | 240 |
| tcgctcttaa | ataaatcctc | acctgagcag | caaagttaac | atgtccagat | caaaactcca | 300 |
| catctttccc | caaaacctga | tttcccttct | gtgtttccaa | aggtgttacc | actttcctta | 360 |
| ccaatccagg | tttaaaatct | tggagtcacc | tttgattctg | tttactaatt | gccctaatt | 420 |
| aatatgatta | tatagtttat | tgtccaaacc | tttttgagag | taaaaggggtg | ccattagtaa | 480 |
| ttacatcagg | aaaacatata | ccaggcaaac | caggatata | ggtcagccta | ctcgatgcat | 540 |
| tatgaaatgc | agtgattgcc | aagttctgtc | attcccacct | ctaagatata | tcttacctcc | 600 |
| atatectctt | ttccattctg | actaattaag | cctcaactgc | tgtcaccagt | gaccttctaa | 660 |
| ctgcttttcc | tacctttaaa | ctaccctcac | cccctccatt | cttgtgatgc | attattgcca | 720 |
| tggtgatctt | cccgaagcat | agctctgact | atggcccatc | tcagaaaacc | tacagtggct | 780 |
| caccgttg | | | | | | 788 |

<210> 2006

<211> 788

<212> DNA

<213> Homo sapiens

<400> 2006

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| ggaacattg | cttctgtacc | agccaacctt | ctgctcctga | agaatatctc | tgctatgggc | 60 |
| ctgtactgtg | gtcaatacaa | aaaatgaact | ttcccgctct | ctccaagagc | ctatcttcag | 120 |
| tgcttcggta | ctgccagcaa | gggcgcaccc | aaccatatgt | cggaaatgggt | ttcaagctgg | 180 |
| atgagggtcaa | tgatgccttc | cttcatgtga | tacaggggaa | atccgtgggc | aaggtgcttc | 240 |
| tcgctcttaa | ataaatcctc | acctgagcag | caaagttaac | atgtccagat | caaaactcca | 300 |
| catctttccc | caaaacctga | tttcccttct | gtgtttccaa | aggtgttacc | actttcctta | 360 |
| ccaatccagg | tttaaaatct | tggagtcacc | tttgattctg | tttactaatt | gccctaatt | 420 |
| aatatgatta | tatagtttat | tgtccaaacc | tttttgagag | taaaaggggtg | ccattagtaa | 480 |
| ttacatcagg | aaaacatata | ccaggcaaac | caggatata | ggtcagccta | ctcgatgcat | 540 |
| tatgaaatgc | agtgattgcc | aagttctgtc | attcccacct | ctaagatata | tcttacctcc | 600 |
| atatectctt | ttccattctg | actaattaag | cctcaactgc | tgtcaccagt | gaccttctaa | 660 |
| ctgcttttcc | tacctttaaa | ctaccctcac | cccctccatt | cttgtgatgc | attattgcca | 720 |
| tggtgatctt | cccgaagcat | agctctgact | atggcccatc | tcagaaaacc | tacagtggct | 780 |
| caccgttg | | | | | | 788 |

<210> 2007

<211> 1344

<212> DNA

<213> Homo sapiens

<400> 2007

| | | | | | | |
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| gtaagccctg | cagaacctatg | atccaactaa | gcctcttttc | tttataaatt | atccagtccc | 120 |
| aggcatttat | ttatagtaat | gcaagaacga | actaacacag | catggaaggc | tcttgatgat | 180 |
| ctagtgtatt | actttcttgt | ggctcctgta | ataaattatc | acaaacttag | tggcttaaaa | 240 |
| caatacaaat | ttattttatc | tectgcagat | caggcatcag | aagtccaaaa | tcagtcttct | 300 |
| ggggcaaaaa | tccagggtgc | aacagggtg | tgatacttct | gaagactgca | gggagaatcc | 360 |
| gttttccagc | ttttttcatc | caccagaggc | cacctgtatt | ccctatccca | caaccctagc | 420 |
| cccttctctt | atctttgaag | tggactattt | catccccgtg | ttctatcatg | acagtgcctt | 480 |
| ctctcatatt | gacctctctg | ccttataaga | ttccttgatg | ttacactggg | tccacctgca | 540 |
| taatcaaggc | taatctctcc | atctggagat | cttaatatata | tcacatctac | aaagtccctt | 600 |
| tggccattga | agtaacatat | ttatatgttt | tcattattag | gatgtgggac | actttgtcag | 660 |
| ggacagggat | ttttcagcct | accttttttc | ttcacctttt | gccaccactc | tcagcctgtg | 720 |
| gtctcaattg | ccagccttta | cacttgctac | ccccattgtc | tgggtagtgc | ataccagtcc | 780 |
| ctcaagacta | gcctcaggca | ttgcctcttc | tgggaatata | tcctcttaca | ggccaggata | 840 |
| tgactcatgg | gtgcattcct | aatagcactt | cacttatttc | tactgtcacc | acactgatct | 900 |
| gtaattactt | gatttgtctg | actcttctgg | gggcttgtaa | gcattctggc | acagagaact | 960 |
| atgacttact | ggggcttaca | tctcttgcta | aacacagtac | ctaaaaattta | gtaggcattc | 1020 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|------|
| cctcataaac | atgaatgaat | gaatcaaaga | atgaataaac | atthagga | tgatgtgtg | 1080 |
| ttgggtcaact | tcttttctca | tcactgttaa | agataaaaga | atgccaagcc | agggtgttca | 1140 |
| gacagaagca | agcaccacat | ccctgagaga | gcagcacatc | tgggcagcca | tgtgtgagaa | 1200 |
| gtcgggttga | ttccccatac | acagttgtct | ttgcagctgt | actcttaacc | actgtaacca | 1260 |
| cagaagtggg | gaaacaatag | ggtggggtga | agtgaaga | aaattttcca | aaacttcatt | 1320 |
| tatctaataa | atacagatat | ttaa | | | | 1344 |

<210> 2008

<211> 1344

<212> DNA

<213> Homo sapiens

<400> 2008

| | | | | | | |
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| gtaagccctg | cagaacccatg | atccaaactaa | gcctcttttc | tttataaatt | atccagtcctc | 120 |
| aggcattttat | ttatagtaaat | gcaagaacga | actaacacag | catggaaggc | tcttgatgat | 180 |
| ctagtgtatt | actttcttgt | ggctcctgta | ataaattatc | acaaacttag | tggcttaaaa | 240 |
| caatacaaat | ttattttatc | tcctgcagat | caggcatcag | aagtccaaaa | tcagtcttct | 300 |
| ggggcaaaaa | tccaggtgtc | aacagggtcg | tgatacttct | gaagactgca | gggagaatcc | 360 |
| gttttccagc | ttttttcatc | caccagaggc | cacctgtatt | ccctatccca | caaccctagc | 420 |
| cccttcctct | atctttgaag | tggactatct | catccctgt | ttctatcatg | acagtgcctt | 480 |
| ctctcatatt | gacctctctg | ccttataaga | ttccttgtag | ttacactggg | tccacctgca | 540 |
| taatcaaggc | taatctctcc | atctggagat | cttaataata | tcacatctac | aaagtcctt | 600 |
| tggccattga | agtaacatat | ttatatgttt | tcattattag | gatgtgggac | actttgtcag | 660 |
| ggacagggat | ttttcagcct | accttttttc | ttcacctttt | gccaccactc | tcagcctgtg | 720 |
| gtctcaattg | ccagccttta | cacttgctac | ccccattgtc | tgggtagtgc | ataccagtc | 780 |
| ctcaagacta | gcctcaggca | ttgcctcttc | tgggaatata | tcctcttaca | ggccaggata | 840 |
| tgactcatgg | gtgcattcct | aatagcactt | cacttatttc | tactgtcacc | acactgatct | 900 |
| gtaattactt | gatttgtctg | actcttctgg | gggcttgtaa | gcattctggc | acagagaact | 960 |
| atgacttact | ggggcttaca | tctcttgcta | aacacagtac | ctaaaaattta | gtaggcatct | 1020 |
| cctcataaac | atgaatgaat | gaatcaaaga | atgaataaac | atthagga | tgatgtgtg | 1080 |
| ttgggtcaact | tcttttctca | tcactgttaa | agataaaaga | atgccaagcc | agggtgttca | 1140 |
| gacagaagca | agcaccacat | ccctgagaga | gcagcacatc | tgggcagcca | tgtgtgagaa | 1200 |
| gtcgggttga | ttccccatac | acagttgtct | ttgcagctgt | actcttaacc | actgtaacca | 1260 |
| cagaagtggg | gaaacaatag | ggtggggtga | agtgaaga | aaattttcca | aaacttcatt | 1320 |
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<210> 2009

<211> 340

<212> DNA

<213> Homo sapiens

<400> 2009

| | | | | | | |
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| agaaaaggaa | gagctattct | gacagagaaa | gatggcacia | agaaccactt | ggtcttagtc | 60 |
| tcagactcac | ctttgacctg | gttgtggtgt | cccctaagtg | tgtacagcag | tcacaaaagt | 120 |
| ccatctgacc | ctgccctagt | ctggctgtca | tatgacctat | ccccacccc | cactgagagt | 180 |
| atctttctaa | agaggaaatc | tgatcaagct | acctccctaa | ctaaaatccc | ttagtggctt | 240 |
| tccagcatgg | cacgtgacat | agcttgatt | cttgtcccca | tccaaatctc | atgataaaat | 300 |
| gtaatcccca | gtattggagg | tggaccctgg | tgagagcacc | | | 340 |

<210> 2010

<211> 340

<212> DNA

<213> Homo sapiens

<400> 2010

| | | | | | | |
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| tcagactcac | ctttgacctg | gttgtggtgt | cccctaagtg | tgtacagcag | tcacaaaagt | 120 |
| ccatctgacc | ctgccctagt | ctggctgtca | tatgacctat | ccccacccc | cactgagagt | 180 |
| atctttctaa | agaggaaatc | tgatcaagct | acctccctaa | ctaaaatccc | ttagtggctt | 240 |
| tccagcatgg | cacgtgacat | agcttgatt | cttgtcccca | tccaaatctc | atgataaaat | 300 |

gtaatcccca gtattggagg tggaccctgg tgagagcacc

340

<210> 2011

<211> 2593

<212> DNA

<213> Homo sapiens

<400> 2011

| | | | | | | |
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| caggaggtgg | aggttgagc | gagctgagac | cgcaccattg | cactctagcc | tgggcaacaa | 120 |
| gagcaaaaact | ccgtctcaaa | ataaatacat | acatacatat | atgcatacat | acatacatat | 180 |
| atacgggggat | taaaatagtc | tagtagtgac | acctgaacag | agagattgat | ccaagaaatg | 240 |
| aaacagaaat | ctcgggaagt | gacctgaata | cacacacaca | cacacacaca | cacacacaca | 300 |
| cacacacgaa | ggcgtgaaag | actccatgac | cctcaaggta | taagatgcat | tttttttttt | 360 |
| tttttgagac | aggtgtctac | tctgtcacc | agactgggtg | cagtgggtga | ctatcccagc | 420 |
| tcagctctac | cctccatccc | cccaacctcc | cccaaccacc | ctgagctcaa | gcaattctca | 480 |
| tgccctcaac | ctcagcctca | tgagtaactg | ggactacagg | cgtgcaccac | catgcgcagc | 540 |
| taattttttg | tatttttagt | agagatgggt | ctaaccatat | tgcccaggct | ggtctcgaac | 600 |
| tcctgagctc | aagcgatcct | cttgcttcag | cctcccaaag | tgctggcatt | acagctgtga | 660 |
| gccaccgcac | ctggccgcac | tcttctaaat | cacagtacat | ctggctccca | gtgcccaggc | 720 |
| tctcagggca | gaaggtccag | tgtgatcact | ttgcattggc | tctctcccct | cctgagcttg | 780 |
| tgccaggggc | ccagggtcga | cctggagaag | gaaaaatggc | gagggtgaag | atgggggtgc | 840 |
| tggtttgggg | accatcctgg | cccccttgt | cactgttgac | atctcttctg | cacagtggca | 900 |
| ttgctggggg | gtgcttactg | tgccatttca | aggggctggc | agccgcagcc | tcactgcaga | 960 |
| tcagggactt | ggcttcccag | ttgaccacag | gtccaagaac | ctgcagggtc | cagcctcccc | 1020 |
| cccattccc | gtcttccc | ccctggcccg | gccctccagg | tgagaaaca | tgaggcccc | 1080 |
| tctccaggac | tgtgggagga | gcgtgtccct | cagactggcc | tgtgtcctgg | ctcctcttac | 1140 |
| cacctcttcc | acaggttgtc | acctgcagct | gccccaggat | aaaggcaagg | ccagagagga | 1200 |
| ctcctgaact | cctgtgtgcc | tgggggtggc | gggggcaaca | tagccaactg | gtggcctgag | 1260 |
| cggggccatg | tgagggacac | ccttgggtgc | ttgtccca | tcaagctggg | aggtgacact | 1320 |
| gaggatgcat | tagtctgcag | cgtatgataa | aaacggcatt | tcaggccagg | cgcggtggct | 1380 |
| catgcctgtc | acccagcac | cttgggaggc | caaggtgagc | agatcatatg | aggtcaggac | 1440 |
| tttgagacca | gcctggccaa | catggtgaaa | actcatctct | actaaaaaaa | caaaaattat | 1500 |
| gtgggttggg | gggtgtgcgc | tgtaatccca | gctacttggg | aggctgaggc | aggagaatca | 1560 |
| cttaaacctg | ggaggcagag | gctgcaacga | gccgaaattg | caccactgca | ctccaggctg | 1620 |
| actccgtctc | aaaaaaaaaa | aaaaaaaaaa | aggcatttca | gttcaaatag | ggaaggata | 1680 |
| catctttctt | tcttttctct | ttctttcttt | ctttctttct | ttctttctct | ttctttcttt | 1740 |
| ctttctttct | ttctttcttt | ttctttcttt | ccttcttctc | ttctttctct | tctctctctc | 1800 |
| tttctctctg | tctctctttc | tttttgagat | ggagtttcac | tctcgtgccc | caggctggag | 1860 |
| tacaatggcg | tgatctcggc | ttattattat | tctccatggt | ggtcaggctg | gtcttgaact | 1920 |
| cccaacctca | gggtgatccg | ctgcgttggc | ctcccaaagt | gctgggtgta | gccactgcac | 1980 |
| ccggcttagg | atgcattttt | caatatttta | gtgtttgaat | aacgggctaa | cttgagaaaa | 2040 |
| aaataatttg | aatcacacat | cacaccaaaa | ataaattcta | ggtggatttt | aacactttca | 2100 |
| aaaattatta | ttattattag | tttagagaca | gggtctcact | ccgtcgctca | ggctggagtg | 2160 |
| gagtggtag | atcatgggtc | actgcaacct | taaactcctg | gcctcatatg | atcctccagc | 2220 |
| ctcagcctct | caaaggactg | gaactacaaa | catgcaccac | cacgcccagc | ctaggtgggt | 2280 |
| ttttaaaatc | cattcaaggg | cgggtgcagt | ggctcacacc | tgtaatccca | gcattttggg | 2340 |
| aagccaaggt | gggaggatca | cttgagccca | ggagtctcag | accggcctgg | gcaacatagt | 2400 |
| gagactacat | ctctacaaaa | aatttaaaaa | tgagccaggc | atgggtgggc | acacctgtag | 2460 |
| tctctgctat | tcaggaggct | gaggcgggat | cattgtttga | gcccaggaga | cagattgcag | 2520 |
| tgagctatga | tggcaccact | gcattggcagc | ctgggtgaca | aaggagatt | cagtctcaaa | 2580 |
| aaaaaaaaaa | aaa | | | | | 2593 |

<210> 2012

<211> 149

<212> DNA

<213> Homo sapiens

<400> 2012

| | | | | | | |
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| tcacctgaag | tcaggagttt | gagaccagcc | tggccaacat | ggtgaaaccc | tgtctctact | 120 |

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149

<210> 2013

<211> 8996

<212> DNA

<213> Homo sapiens

<400> 2013

| | | | | | | |
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| tgcttcggcc | tcccaaagtg | ctgggattac | aggcgtattc | cactgtgccc | agcctgagtt | 120 |
| tctgtttaga | aacaacagtc | tatgatagta | taatcctctc | ttttttgtac | acagagtaaa | 180 |
| gaggacaaat | agggtgaaaga | ataaatgaaa | ggctggaatc | ccacttcccc | cgctgtccca | 240 |
| gggcattgga | tattgacgga | taggaggcag | caaaccactc | acagagccag | gaagaaatga | 300 |
| aggcgttggt | attgccagga | gggaagccg | gctcggctga | aatacgctat | gacctagca | 360 |
| aggagatact | gatggagaga | aaggaacaca | gagagggaga | ggtcacatct | tggaaagagga | 420 |
| agatttgagg | gagggggaat | gaggggtctg | ggaggggctg | cccatcagag | aagggaacct | 480 |
| agtgttgggg | tgactgtact | cattttgaaa | ttgcgggatg | gaggggtatt | cgaaggctcg | 540 |
| atgcaaatcc | gagaagccag | aggaagggtt | ttgggtgatg | ctcccaggat | ggtgggctcc | 600 |
| gatgggatct | ttggaggggg | tgtgtctagg | ttggctgggt | tcaggagggt | cttttgtgtg | 660 |
| ccaggcagag | aactgtcccc | aagagctgag | agtagagggg | ccaggagcct | cagggctcgc | 720 |
| gccagactgt | ggcccagagc | tcagatccca | aaggaccat | aggagaggca | ggggccactc | 780 |
| attcactctg | caagagacca | gcagaatcct | gagggagatg | ctgacaaatc | ataaaaagac | 840 |
| caagaatagc | cgggagtggc | ggctcaagcc | tgtgatccca | gtactttttg | agaggtggag | 900 |
| acaggaggat | catgtgagcc | caacagtctg | agaacaacct | gggcaacata | gtgagacctt | 960 |
| gtttccacaa | acatttcaaa | aattagttag | gcatgggtgc | atgtgcctag | tcccagctcc | 1020 |
| tcaggaggct | gaggaagaaa | gattgcttga | gccagggaat | tagaggctgc | aatgagctat | 1080 |
| gatcatggca | ctgcactcca | tcctggggag | cagagctaga | ttctgtctca | caaaaaaaaa | 1140 |
| attttgtggg | gccaagactc | aagaccatgg | gagctggtcg | ggcacagtgg | ctgacgtcta | 1200 |
| taatctcagc | actttggggg | gccaaggtgg | gtggattgcc | tgaggtcagg | tgttcaggac | 1260 |
| caacctggcc | aacatggcaa | aaccccgttt | ctactaaaaa | cacaaaaaatt | agccaggcgt | 1320 |
| ggtggttcat | gtctgtaatc | ccagctgctt | ggaggctgag | gcaggagaat | cgcttgaacc | 1380 |
| caggaggcat | cggctgcagt | gagtgaagat | cgagacactg | ccctccagcc | tgggcaacag | 1440 |
| agcaagactc | tgtctcacac | acacaaaaaa | aaaaaaaaaa | aaaagactgt | aggagcatct | 1500 |
| ggtgggaggt | ggtggaggga | gaactgtggg | tttggaaagc | gcgcccctcc | cccagccatg | 1560 |
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| cccgggggga | agtctcagga | ttgtgcccgc | gggtgaggtg | gatgggagag | gggagaatga | 1800 |
| ctttcactgg | gcaagggaga | gaggctcctg | ctctgagact | cccctgagaa | gaggccgaag | 1860 |
| gaggccctgg | gtgtgagaat | ctacaggatg | tagagctggg | aatcagccag | gacccctctc | 1920 |
| agcagacacg | gagggaccac | tgcagagtca | ttaaaggaat | cccatcattt | cctcatgaga | 1980 |
| cagtcacaca | tcagggtgtg | accatggcct | tggtatcccc | cactatggat | ggagacactt | 2040 |
| aggtttagaa | aagtcagtaa | gagacattaa | gtttcagagg | gcacagctga | aaccactttc | 2100 |
| tttgtttatt | gattttgttt | ttctttattt | gatttttatt | tttattttatt | tattaattta | 2160 |
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| gagttcaagc | aatcctcttg | cctcagcctc | ccaacgtgct | gggatctcag | gcgggagcca | 2460 |
| ctgcgcctgg | cccgaaccca | agctttctta | tcccaagcgc | tgacctttat | caagttgacc | 2520 |
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| tccatctctc | ccagcctcgc | agactgctgg | cttctccaag | ccatctttcc | ttctgtctgt | 3060 |
| ctcctctgct | gagctccatg | tgcgcctcct | tctcctcccc | attctcccg | ttctctgtcc | 3120 |
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| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| tttttttttt | gttgttgttg | ttgagaaaca | gtcttgcttt | gtggcctagg | ctggagtgtg | 3240 |
| gtgggtgcgat | cttggctcac | tgcaacctct | gcctcctggg | ttccagtgat | tctcctgcct | 3300 |
| aagcctccca | agtagctggg | attacagggt | cccaccagaa | cgcccagctc | atttttgtgc | 3360 |
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| gggtgctctc | ggggtgtcct | ctaccaagc | tgactgttga | agtccttgtg | gtgtcaagg | 4260 |
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| ggcccccttc | cttcgtctta | gtcaatccta | tcccacctct | tcttccacca | gtcccctcac | 5400 |
| ctgatgggtc | caacacttca | tctccacca | cctcctggag | ggggtacccc | gaggtgctcc | 5460 |
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<210> 2014

<211> 2959

<212> DNA

<213> Homo sapiens

<400> 2014

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| agaagaaatg | ttaatgggct | ggtactttgt | agcaaggcta | gcttaaaggc | ttcctggcct | 240 |
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| tatatacatt | atctcactga | atcccacaga | acagctttat | gaggatgata | ctattgtttg | 360 |
| tcctctttta | caaatgggga | aactgagttt | ttgggggttt | aaaaacctaa | ccaagtattt | 420 |
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| ttggaatatg | tgagtgagag | gatgagtcg | atggtacagc | ctgccctccc | aattttcaaaa | 1260 |
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| gatgtctcag | ggaaaaattt | caaccagctc | attcccagag | cactccagcc | tggcagtcag | 1860 |
| cacctcggca | tcaccccagt | ccatcccacc | atcacccctt | ccccctctac | ttacatccta | 1920 |
| aggagtcggg | cactgagaca | taaaggcagt | aatcgagaa | ctggaaacaa | aacaataata | 1980 |
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<210> 2015

<211> 2406

<212> DNA

<213> Homo sapiens

<400> 2015

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| gagccgtaag | gctgcctgca | ggagaagaac | tttggatgga | gttttgaagg | aagtgaggaa | 120 |
| aagatctgaa | ttaacgtatt | aacacataaa | gcttgtcatc | tgaacaggac | tataagcatc | 180 |
| tcgagggtaa | gaacgtgcct | tttctttctt | acacattccc | agaagacca | cattcctcat | 240 |
| tgggtctctc | gtaacagtat | ttactaagca | cttgaataac | tggacatggg | caccatgttg | 300 |
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| aattctttga | gtctgaaact | tttttcattt | gcagtgcaga | taagtgcctg | atcttgagct | 660 |
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| atttattggg | tatttttgac | aaaataatgg | aatcatcaaa | ttttgaggtt | gagaagtaaa | 1260 |
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<210> 2017
 <211> 351
 <212> DNA
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<210> 2018
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| aaaccatggg | ttctgggtat | gcataatttt | tggaaggcca | cgataagcaa | atctcacagt | 360 |
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| tttgtctctg | tgaggtttac | tgaggactta | gggttggta | tgtagaggag | ggagccccc | 1140 |
| ttctcctgtg | ggcactctag | cactcttaat | aatcagtatt | aaacatgttg | aagggcataa | 1200 |
| aggaataaac | cttctcttaa | aaacaagtta | gagtcagtca | taaaactgtt | tgcttagacc | 1260 |
| ttgatcactt | aaaataagat | cttagatgtg | atgtgtcttt | gtggagtatt | tcctgtggct | 1320 |
| cgggaggtgt | gcagtagagt | gggtgtctgag | ggacagtgag | gggtgaagg | aaggtgggag | 1380 |
| agagggcctt | cagtgtactgt | accaaagact | cacagacact | gggtgtcttg | gtgatgggtg | 1440 |
| cacatagccc | ttcttttgtg | actgaagctg | tggtggcctc | atccacagg | gtctgccctc | 1500 |
| tccagataat | tctgtcactg | aacttcaaac | tgcaatgga | acgatagcgc | agtctcttaa | 1560 |
| caatgcttca | ggacagataa | tagagctgtg | cgggcagcct | cggtgacagt | gttgggaatc | 1620 |
| tgagaatgg | ctttgtccac | ttctttcctt | tcagaggaga | cattgaacct | cggcatgggtg | 1680 |
| tctcacgcca | ggaatcccag | catgttggga | ggctgaggtt | gggggatcgg | attgcttgag | 1740 |
| gctaggagct | tgaggtcagc | ctgcgcaaca | tagtga | | | 1776 |

<210> 2032

<211> 110

<212> DNA

<213> Homo sapiens

<400> 2032

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| gaataactaaa | tatattttct | ctttcttatg | attttctttt | tttaattaaa | | 110 |

<210> 2033

<211> 110

<212> DNA

<213> Homo sapiens

<400> 2033
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gaatactaaa tatattttct ctttcttatg attttctttt ttttaattaaa 110

<210> 2034
<211> 148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (136)..(136)
<223> n equals a,t,g, or c

<400> 2034
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaanaaaa aaaaaaaaaa 148

<210> 2035
<211> 152
<212> DNA
<213> Homo sapiens

<400> 2035
aaaaaaataa aaaaaaaaaa aaaaaaaaaa aaaataaaac aaaaaaaaaa tataaaaaaa 60
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ataaaaaaaa aaaaaaaaaa aaaattaaag ag 152

<210> 2036
<211> 151
<212> DNA
<213> Homo sapiens

<400> 2036
aaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacaa 60
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaataaaaa aaaaagagaa aaaaataaaa 120
ataaagaaat aaataaaaaa aaaaaaaaaa a 151

<210> 2037
<211> 202
<212> DNA
<213> Homo sapiens

<400> 2037
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aaaaaaaaa aaacaaaaaa taataaaaaa aagaaaaaaa aaaaaataaa aaaaaaata 120
aaaaaaaaca aaaaaacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataacaacaa 180
aaaaaataaa acaaaaaaaa aa 202

<210> 2038
<211> 158
<212> DNA
<213> Homo sapiens

<400> 2038
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaata aaaaaaaaaa aaataaaaaa 120
aaaaaaaaa aataaactaa aaaaaaaaaa taaaaaaa 158

<210> 2039
 <211> 126
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

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<220>
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 <222> (20)..(20)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (95)..(95)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (107)..(108)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (118)..(118)
 <223> n equals a,t,g, or c

<400> 2039
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaaa aaaaaannan aaaaaanaaa 120
 aaaaaa 126

<210> 2040
 <211> 77
 <212> DNA
 <213> Homo sapiens

<400> 2040
 aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 ataataaaaaa aaaaaaa 77

<210> 2041
 <211> 964
 <212> DNA
 <213> Homo sapiens

<400> 2041
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<210> 2042

<211> 964

<212> DNA

<213> Homo sapiens

<400> 2042

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<210> 2043

<211> 236

<212> DNA

<213> Homo sapiens

<400> 2043

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cagtgaggct gaggcaggag aatcgcttga acctgggaaa cagaggttgc agtgactca 180
gattgtgtca ttgcaactca gcctggggcca catagtgtga ctctttcccc catccc 236

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<210> 2044

<211> 236

<212> DNA

<213> Homo sapiens

<400> 2044

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tgggtggatc acgaggtcag gagttcaaga ccagcctggc caacgtgggtg aaccctcatc 60
tctaataaaa atgcaaaaat tagccaagca tgatgatgcg tttctggaat cccagctact 120
cagtgaggct gaggcaggag aatcgcttga acctgggaaa cagaggttgc agtgactca 180

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gatttgtgtca ttgcactcca gcctgggcca catagtgtga ctctttcccc catccc 236

<210> 2045

<211> 3722

<212> DNA

<213> Homo sapiens

<400> 2045

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acccgcaaga gggagtgggg accagagaca gagacacaaa ctccatttga atgtgaacct      180
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<210> 2046

<211> 278

<212> DNA

<213> Homo sapiens

<400> 2046

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tctttgtctc aggcctctgt cccagtgcga gggctataga aaaacaggag tcttggggcc 240
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<210> 2047

<211> 6504

<212> DNA

<213> Homo sapiens

<400> 2047

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| | | | | | | |
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| cggggacacc | gggggtgcc | gagggccccc | gagcccgaa | gaggcaggag | gctcctcccc | 2100 |
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